Source
Polk's City Directory

E MAIN ST 1980

N CRAWFORD INTERSECTS

402 Unclaimed Freight & Furniture 335-0051

408 Fox Geo T @ 335-1791

409 Saint Patrick Church 335-2833 Wolfer Robt R Rev 335-2833 Albietz Henry F Rev

414★Clark Erma M Mrs 339-4633

419 Sisters Of The Precious Blood convent 335-2430

423 Nichols Lloyd J

424 Elliott Anna L Mrs 339-5211

424½ Smith Alice M Mrs 339-1549

427 Cargill Michl L @ 339-3227

428 Abshire Benj O @ 335-1353

431 Ingle Charles R @ 339-2778

432 Waltz's Dry Cleaners No 1 339-4015

4321/2 Brock Ann Mrs 399-0404

437 Knoop John H

441★Hodges Ronald W ◎ 335-7724

UNION BEGINS

504 Western John M @ 335-4561

509 Stephenson Danl L 335-2188

5091/2 Gearhart Vickie S 339-3280

510 Yerty Marie D Mrs © 335-1728

514 Durand Briton R ⊚ 339-1210

515 Waddle John @ 335-6577

Polk's City Directory

E MAIN ST 1980

E MAIN ST—Contd **NEW BEGINS** OAK BEGINS 604 Cairns Helen M Mrs © 335-1947 608 Hecker Jack E ⊚ 339-1896 614 Clark James A 335-0665 6141/2 Vacant 617 Van Cleve School 339-4114 620 Cox Charles A Jr © 630 Sutton C Robt @ 339-0892 N COUNTS BEGINS S COUNTS BEGINS 702 Barrett Charles C @ 339-8774 703 Wagner Sudie B 339-7617 707 Mathews James G @ 335-1323 708 Kessler Paul E ⊚ 339-4175 7081/2 Vacant 713 Yount Bernice D Mrs 339-2131 714 Saunders Glenn B @ 335-1064 715 Jones James E ⊚ 339-3413 717 Hartley Douglas R ⊚ 335-4118 7171/2 Vacant 720 Johnston Richd E @ 335-7658 723 Groff Wm W @ 335-4609 N FRANK ST BEGINS S FRANK ST BEGINS 802 No Return 803 Adkins Arth @ 339-1236 804 Schlimmer Vashti B 339-2394 809 Martin Minnie M Mrs © 339-8285 810 Thompson Edna M Mrs © 339-1471 810½ ★Acel James 814 Mc Gill Clifton D @ 335-2701 815 Williams Jewell M @ 335-4453 819 Macy E Burnell @ 339-1909 820 Shroyer Dale K @ 339-5884 825 Pfister Charles J @ 339-3422 828 Johnson Marie @ 831 Houser James H @ 335-8757 834★Cook Harold J ⊚ 335-2990 WILLIAMS ST BEGINS 901 Pomeranz Fred F @ 335-6175 902★Bramlette Wm E 903★Ullery Clem A @ 335-2264 909 Ball Herbert L ⊚ 335-8824 910 Mc Clure Rita B Mrs © 335-7035 915 Kirsch Kenneth A @ 335-0487

Source

Polk's City Directory

E WATER ST 1980

E WATER ST-Contd 181/2 Leon's Beauty Shop 335-4106 21 Hagen Axel 335-4429 23 Wetz Leonard R 339-8393 N WALNUT INTERSECTS 101 Bunch C Gene @ 335-8992 107 Hufford Zelpha H Mrs © 339-8123 107½ ★Garner Danl 111 Laufer Loretta M 335-2118 111½ Dirscherl Margt J Mrs 339-0903 115 Tyminski Judy M Mrs © 116 Bill's Bicycle Shop 335-1537 Barnthouse Howard D 335-2800 1161/2 Barnthouse Howard D II 121★Mathes Freda 335-5494 121½ ★Kehler Judith L 335-0901 124 Girl's Civic League 1241/2 Mc Neal Emily H 339-1768 N MULBERRY INTERSECTS 201 Overfield Tavern Museum historical hse 209 Short's Appliances Inc elec 335-4331 209½ ★Gallagher Danl 210 Hobart Cabt Co (Stge) 335-4666 211½★Snyder Sherry 213 Music Box 335-4247 213½ ★La Veck Lance R 335-5137 215 Music Box (Addl Space) CHESSIE SYS CROSSES 301 Hobart Cabinet Co 335-4666 N CRAWFORD INTERSECTS 405 Mc Connell Vernon S Jr ⊚ 339-2314 409 Lutz Fred J 335-7983 413 Hysinger Maudie Mrs 335-8740 417 Vacant 420 Saint Patrick School 339-3705 423 Strine Robt W @ 335-2666 431 Brown-Bridge Mills (Stge) 444 Vacant 446 Clark Mark A 450 Walker Wm E 339-0773 **NEW ENDS** 518 Brown-Bridge Mills Inc gummed paper 339-0561 523 City Board Of Educ (Materials Cntr) 622 Wintrow Clinton J 339-2229

N COUNTS ST ENDS

11

UNION BEGINS

E MAIN ST 1975

E MAIN ST-Contd 210 Gillis Moving & Delivery 335-5091 210½ Spangler Charles 211★Brown Ivan Vacant 211½ Vacant 215 Sturdivant Jon Antique Shop 335-6798 Sturdivant Jon 216 Nichols James E

2161/2 Bowlin Hazel G Mrs 221 Electronic Shack 339-3733 223 Frank C Furniture

B&O-C&O RR CROSSES CLAY INTERSECTS 304★Roth Lemuel **★**Marlow Becky L 305 Trojan Coal & Builders Supply Co 335-1413 306★Walker James 339-2308 306½ Victor Ruth M Mrs 335-4404 310 Hackett Thos E ⊚ 335-1090 311 No Return 311½ Robertson Homer 315 Elswick Elza G Mrs 335-2689 316 Elkins Norma Mrs 317 Myers Mary L 335-8248 320 Leath Robt D @ 335-1763 323 Sturdivant Jon Antique Shop

(Stge)

335-6860

N CRAWFORD INTERSECTS 402 Family Furniture 339-3854 408 Fox Geo T ⊚ 335-1791 409 Saint Patrick Church 335-2833 Wolfer Robt R Rev 335-2833 414 Kessler Thos W Jr 335-6346 419 Sisters Of The Precious Blood convent 335-2430 423 Higgins John M 335-0821 424 Clabaugh Martha © 339-3396 4241/2 Smith Alice Mrs 335-3549 427 Cargill Michl L ⊚ 339-3227 428 Abshire Benj O ⊚ 335-1353 431 Vacant 432 Waltz's Dry Cleaners No 1 339-4015 4321/2 Vacant 437 Beam Patricia Mrs 335-4009 441★Persinger Phillip C ⊚

504 Gero Delmar W ⊚ 335-4145 509★Reed John M 510 Yerty Marie D Mrs © 335-1728 514 Durand Briton R ⊚ 335-3210 515★Miller Carey P 335-6577 **NEW BEGINS** OAK BEGINS 604 Cairns S Craig ⊚ 335-1947 608 Hecker Jack E ⊚ 335-3896 614 Gyarmati Imre © 335-0875 6141/2 Vacant 617 Van Cleve School Troy School Pre-Kindergarten Program 335-0119 620★Owen Douglas M 620½ ★Shoup Michl L 335-1233 630★Sutton C Robt ⊙ N COUNTS BEGINS S COUNTS BEGINS 702 Fuller Deva ⊚ 335-0395 703 Manning David F @ 339-3684 707 Mathews James G ⊚ 335-1323 708★Kessler Paul E 339-4175 708½ Easley Blanche Mrs 713 Carmichael Mary A Mrs 714 Wayman Garth ⊚ 335-6866 715 Jones James E 339-3413 717★Hartley Doug ⊚ 717½ Vacant 720 Johnston Richd E ⊚ 335-7658 723 Groff Wm W @ 335-4609 N FRANK ST BEGINS S FRANK ST BEGINS 802 Strickler James 803 Adkins Arth @ 335-3236 804★Lenhart Terry D 339-4642 809 Martin Minnie M Mrs © 335-1785 810 Thompson Edna M Mrs © 335-3471 8101/2 Vacant 814★Sommer Michl R ⊚ 335-8144 815 Williams Jewell M © 335-4453 819 Macy E Burnell © 335-3909 820 Shroyer Dale K © 825 Pfister Charles J @ 339-3422 828 Johnson Marie ©

831 Houser James H ⊚ 335-8757

901 Pomeranz Fred F © 335-6175

834★Deaton Dale F ⊚ 335-3701

WILLIAMS ST BEGINS

902★Hayes Fred D 335-5735

els. 333 - 3222 and 333 - 1683

Polk's City Directory

E WATER ST 1975

E WATER ST—Contd

107 Hufford Zelpha H Mrs ◎

335-2322

107½ ★Swartz Robt

111 Laufer Loretta M 335-2118 111½ Dirscherl Margt J Mrs 335-0903

115 Tyminski Edw F © 339-3221

116 Bill's Bicycle Shop 335-1537 Barnthouse Howard D 335-2800

116½ ★Wenrick Susan 335-7328

121★Spahr C

1211/2 Rue Charles

124 Girl's Civic League 335-4235

124½ Beemer Lawrence E Jr 335-4233

N MULBERRY INTERSECTS

201 Overfield Tavern Museum historical hse 335-4019

209 Roeth's Appliances Inc elec 335-4331

2091/2 Pickering Jon 335-2980

210 Hobart Cabt Co (Stge) 335-3018

2111/2 Wilson Matthew

213 Music Box 335-4247

213½ ★ Massie Ronald

215 Music Box (Addl Space) B&ORR CROSSES

301 Hobart Cabinet Co 335-4666 N CRAWFORD INTERSECTS

405★Mc Connell Vernon Jr 339-2314

409 Lutz Esther J Mrs ⊚ 335-3267

417 Catalano Michl 335-5804

420 Saint Patrick School 339-3705

423 Strine Robt W @ 335-2666

431 Brown-Bridge Mills (Stge)

444 Studebaker Bessie M 335-2383

446 Carpenter Robt I 339-4556

450★Johnson May D

NEW ENDS

518 Brown-Bridge Mills Inc gummed paper 335-0561

523 City Board Of Educ Materials Center

N COUNTS ST ENDS

WATER ST W -FROM 24 N

E MAIN ST 1970

	P1050 279182		Same of		
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		-	C)	e J	e J

414 Kessler Thos W Jr 335-6346

419 Sisters Of The Precious Blood convent 335-2430

423 Higgins John M 335-0821

424 Kendall Geo D © 335-3190

4241/2 Smith Alice Mrs 335-3549

427 Braun Mary T @ 335-6741

428 Abshire Benj O @ 335-1353

431 Strock Harriet Mrs © 335-5241

432 Waltz's Dry Cleaners clo 332-4115

432½ Wilson Harriet E Mrs 335-8525

437 Beam Carl E

441 Mc Guire Charles M © 335-2683

UNION BEGINS

504 Gero Delmar W @ 335-4145

509 Newnam Donald 335-0859

510 Yerty Marie D Mrs © 335-1728

514 Durand Briton R © 335-3210

515 Dilley Augusta Mrs 335-4298 NEW BEGINS OAK BEGINS E MAIN ST

1970

E MAIN ST—Contd

ns Van Cleve School 335-1526 Van Cleve Sch (Lunch Rm) 332-3528

604 Cairns S Craig © 335-1947

608 Hecker Jack E @ 335-3896

614 Vacant

620 Berry Roy O 335-3050

620½ Giffen Geneva

630 City Bd Of Educ 335-1919 Dir Of Elem Educ 335-4030 Supt Of Schs 335-2320

S COUNTS BEGINS

N COUNTS BEGINS

702 Towne Calvin E @ 335-0395

703 Crawford Charles R © 335-2786

707 No Return

708 Kessler Paul E @ 332-3241

708½ Easley Blanche Mrs

713 Carmichael Lowell I

714 Terrell Ivan D Hon © 332-4022

715 Denny David R 335-2778

717 Noonan Mary E @ 335-2746

717½ Welsh Michl D 332-6175

720 Johnston Richd E © 335-7658

723 Groff Wm W @ 335-4609

S FRANK ST BEGINS

N FRANK ST BEGINS

802 Vacant

Source Polk's City Directory

E WATER ST 1970

23 Bridges Michl 332-4867 N WALNUT INTERSECTS

101 Bunch C Gene © 335-8992

107 Hufford Zelpha H Mrs © 335-2322

107½ Rayburn Frances R Mrs 335-4420

111 Laufer Loretta M

111½ Dirscherl Margt Mrs 335-0903

115 Curtis Marvin S 335-2227

116 Coomer Wm C @ 335-0849

116½ Jeffery Clarence O Jr 335-3428

121 Browning Robt T 335-1065

Rear Gillen Celaine R.

121½ Markis Charles A 335-0654

124 Girl's Civic League 335-4235

124½ Hall Pamela S 335-4233 N MULBERRY INTERSECTS

201 Overfield House

204½ Hensen Roni

206 Ingle Roscoe E 335-3988

209 Roeth's Appliances Inc elec 335-4331

209½ Pickering Jon 335-2980

210 Hobart Cabt Co (Stge) 335-3018

211½ Williams Charles

213 Music Box The 335-4247

E WATER ST 1970

E WATER ST—Contd
213½ Kolleda Freda K Mrs
215 Massie Plumbing & Heating
332-6082
B&ORR CROSSES
301 Hobart Cabt Co (Plant)
N CRAWFORD INTERSECTS
405 Billhimer Martha A Mrs (
335-3244
409 Lutz Robt E © 335-3267
417 Sampson Michl E 335-1333
420 Saint Patrick School
332-4277
423 Strine Robt W @ 335-2666
431 Brown-Bridge Mills (Stge)
444 Studebaker Bessie M
335-2383
446 Becker Ralph T
450 Wolfe Wilford W 335-7509
NEW ENDS
518 Brown-Bridge Mills Inc
gummed paper 335-0561
N COUNTS ST ENDS

WATER OT W _FROM 94 N

E MAIN ST 1966

332-1232

123 Vacant Mulberry intersects

Target Street

200 Troy Inn hotel 335-4416

201 Jones Stuart C gro

335-6899

Estes Andrew C

332-3453

203 Briggs Loretta M Mrs

drsmkr 335-4054

207 Bristley Carl R @ 339-4242

210 Croner Ruth M Mrs ©

339-3504

211 Hoagland Clara W Mrs © 335 - 4233

215 Ward Dorothy Mrs 335-5596

216 Sumner Geo E

 $216\frac{1}{2}$ Cruea Wilfred 335-2228

220-22 Certified Oil Co gas sta 332-9471

221 Henne's Mkt gro 335-5816

223 Browning's Mr Salon beauty shop 335-5915

304 Honeyman Lucille M Mrs 335 - 4923

E MAIN ST 1966

38

MAIN E-Contd 305 Trojan Coal & Bldrs Sup Co 335-5656 306 No Return 306½ Dapore Robt W 310 Hackett Thos E @ 339-8393 311 Elliott Otto E 311½ Robbins Homer **B&ORy** crosses Clay intersects 315 Fox Ida J Mrs 332-8372 316 Elkins Nursing Home 335-7016 Elkins Dempsey ® 335-7016 317 Donohue Margt Mrs 332-7651 320 No Return 320½ Vacant 323 Quinn Wm antiques 5 N Crawford intersects 401 StPatrick Catholic Church 339-6681 402 Reichard Auto Repr 335-7785 408 Woodard Carrell B @ 339-8392 409 Stenz Geo R Rev 339-6681 414 Anderson Minerva A Mrs @ 419 Sisters of the Precious Blood 339-4146 423 Tyler Agnes K Mrs © 339-9361 424 Kendall Geo D 339-6463 $424\frac{1}{2}$ Smith Alice Mrs 339-9541 425 Taylor Wm E 335-6167 427 Braun Mary T @ 339-6289 428 Abshire Benj O @ 339-6462 431 Strock Glenn C @ 335-5241 432 Waltz's Dry Clns 332-7306 $432\frac{1}{2}$ Morgan Don H 437 Base Larry L 339-4837 441 McGuire Chas M ⊚ 339-6288 Union intersects 504 Zerkel Martha A Mrs @ 332-4028 509 Langston Wm L @ 510 Yerty Marie D Mrs © 339-6086 514 Henne Dorothy @ 339-8280 515 Dilley Gerald M @ 335-6660 New begins Oak begins ns VanCleve Prep School 339-3266 VanCleve Prep Sch lunch rm 332-3528 604 Cairns S Craig @ 339-8916

608 Hecker Jack E ⊚ 614 Snyder Robt F @ 335-3104 620 Brown Geo E 339-8506 620½ Giffen Geneva 630 Dir of Elem Educ 335-4030 Supt of Schools 339-9181 Board of Educ 339-3374 S Counts intersects 702 Todd Raymond E @ 339-6051 703 Crawford Chas R @ 339-8379 707 Osting Alvin A @ 332-3805 708 Kessler Paul E @ 332-3241 708½ Easley Blanche Mrs 713 Carmichael Lowell I 714 Terrell Ivan D @ 332-4022 715 Denny David R 339-8378 717 Noonan Mary E @ 339-8377 717½ Russell Wm 720 Johnston Richd E @ 332-6723 723 Nicklaus Harry E @ 339-8307 S Frank intersects 802 Reed Paul E 803 Adkins Arth @ 339-8563 804 Plank James © 339-6129 809 Niesley Chas M @ 339-8806 810 Thompson Edna M Mrs @ 335-3471 $810\frac{1}{2}$ Vacant 814 Long Chas L @ 339-6126 815 Williams Jewell M 💿 335-4453 819 Macy E Burnell @ 339-8808 820 Lewis Joseph A @ 339-4560 825 Pfister Chas J @ 332-6174 828 Patterson Saml @ 831 Houser Jas H 335-8757 901 Bagford Ralph C 🛛 339-4656 902 Scaggs Orville J 339-8868 903 Laufer Wm F jr 🎯 335-4894 909 Young Howard F @ 335-4893 910 Brubaker Eva W Mrs 💿 335-5218 915 Garman Ray E © 335-5195 916 Snider Luther H @ 339-4566 919 Grump Jas D © 332-6652 923 Markley Jos W @ 335-5986 924 Davis Donald A @ 339-4567 929 Heffner Douglas L 335-5191 930 DeVilbiss Roy C ◎ 339-6128 933 Rozell Ronald A @ 335-5193 934 Kilpatrick James E @ 332-3671

E WATER ST 1966

 $209\frac{1}{2}$ Pickering Jon 339-4245 210 Hobart Cabt Co (stge) 339-6696 $211\frac{1}{2}$ Jay Jesse 213 Recore Arvie Music Center 335-1166 $213\frac{1}{2}$ Noonan Wm M jr 332-4310 215 Massie Plmb & Htg 332-6082 **B&ORR** crosses S Clay intersects 301 Hobart Cabt Co (plant) 339-8666 N Crawford intersects 405 Billhimer Martha A Mrs ⊚ 339-8564 409-13 Lutz Robt E © 339-8562 417 Catalano Michl @ 335-4245 420 StPatrick Sch 332-4277 423 Strine Robt W ⊚ 335-5318 431 No Return 439 Montjoy Barbara A Mrs 441-47 Brown-Bridge Mills Inc (stge) 444 Studebaker Edith M Mrs 446 Fry Wm R 339-8800 450 Wesco Kenneth H 339-8807 New intersects Oak intersects 521-25 Brown-Bridge Mills Inc gummed paper 332-1266 N Frank intersects

Polk's City Directory

E MAIN ST 1962

L WAIN 3	
209 E. WATER	IEL, 333-4331
MAIN E Contd	802 Johnson Homer E
MAIN E—Contd 315 Vacant	803 Ryan Wm A @ FE5-3393
316 Hance Rosalie M Mrs	804 Kalett Herman 339-9121
335-7021	809 Martin Minnie M Mrs (1)
317 Hogan Jean H @ FE2-3641	FE9-8806
320 Williams Clyde L 335-7023	810 Baird Robt M @ FE2-3737
320½ Cecil Harry L	810½ DuLude Gerald M
323 K of C Hall	814 Long Chas L @ FE9-6126
K of C Council No 3873	815 Williams Jewell M © FE5-4453
FE9-6280	819 Macy E Burnell @ FE9-8808
Jack & Jill Nursery Sch FE2-4818	820 Englehart Margt L @ FE9-7569 825 Pfister Chas J @ FE2-6174
5	828 Unroe Russell W @ FE9-6120
N Crawford intersects	831 Houser Jas H FE5-4451
401 StPatrick Cath Church	834 Vacant
FE9-6681	901 Bagford Ralph C @ FE9-7656
402 Reichard Auto Repr Shop	902 Welborn Ray E @ FE9-8866
FE9-7446	903 Laufer Wm F jr @ FE5-4894
408 Hackett Thos E @ FE9-3752	909 Young Howard F @ FE5-4893
409 Stenz Geo R Rev FE9-6681	910 Brubaker Chas G (6)
414 Anderson Minerva A	FE5-5218 915 Garman Ray E @ FE5-5195
Mrs (0) 419 Sisters of the Precious Blood	916 Snider Luther H @ FE9-7566
FE9-7146	919 Grump Jas D @ FE2-6652
423 Tyler Agnes K Mrs ®	923 Markley Jos W @ FE5-5986
FE9-9361	924 Davis Donald A @ 339-7567
424 Kendall Geo D FE9-6463	929 Heffner Douglas L FE5-5191
424½ Smith Alice Mrs FE9-9541	930 DeVilbiss Roy C @ FE9-6128
425 Taylor Wm E FE9-3487	933 Rozell Ronald A @ FE5-5193
427 Braun Mary T @ FE9-6289	934 Fish Myrle L Mrs ®
428 Abshire Benj O @ FE9-6462 431 Strock Glenn C @ FE5-5241	FE2-3671 937 Porter Jas H FE2-6654
432 Waltz's Dry Clns clo cln	940 Walpole John R @ FE2-4247
FE2-7306	941 Vacant
432½ Rose Wm E	947 LeClerc Guy J @ FE9-3056
437 Knoop Griffith H @ FE9-6287	948 Chipley Wm A @ FE9-9825
441 McGuire Chas M @ FE9-6288	975 Robinson Herbert E @
Union intersects	FE2-7395
504 Zerkel Herbert W @ FE2-4028	E Franklin intersects
509 Hickman John C FE5-5175 510 Yerty Marie D Mrs @ FE9-6086	1033 Gross Leo E @ FE2-4946 1035 Henne Robt C @ FE2-4179
514 Henne Dorothy @ FE9-8280	1035 Henne Root C @ FE2-4775 1037 Enyeart Harley D @ FE5-4336
515 Matthews Robt L @ FE9-3480	1039 Johnson Daisy M Mrs ®
New begins	FE9-8876
520 Krayer Eva A @	1051 Cline Bruce E @ FE9-3059
Oak begins	1053 Pearson Zulu M Mrs ®
ns VanCleve Prep School	FE9-3058
FE9-3266	1055 Jacobs Eva Mrs @ FE9-6946
VanCleve Prep School (lunch room) FE2-3528	1057 Houser C Harry @ FE5-4491
604 Cairns S Craig @ FE9-8916	1057½ Vacant
608 Crane Geo F @ FE9-6728	1102 Arter Ima J Mrs @ FE9-3093
614 Snyder Harry E @ FE9-6727	1104 Kline Mildred L Mrs ®
620 Fletcher Kenneth C 339-8506	FE9-3666 1106 Meigs Clifford L @ FE5-3158
620½ Giffen Geneva	1106 Meigs Chilord I @ FE3-3136 1108 Gigicos Geo C @ FE9-9716
630 Dir of Schools FE9-3774	1110 Kennedy John J ®
Supt of Schools FE9-9181	1112 Garmer Richd A @ FE5-5376
Board of Educ FE9-3374	1114 Garwood Edgar D @ FE9-9540
S Counts intersects	1116 Long Chas W FE9-9546
702 Todd Raymond E ® FE9-8146	1120 Vonderhyde Carroll E @
703 Crawford Chas R @ FE9-8379	FE2-4197
707 Osting Alvin A @ FE2-3805	City limits 1128 Sundrup Mary S Mrs
708 Kessler Paul E @ FE2-3241	FE2-6342
708 Kessier Faut E @ FB2 6211 708½ Easley Blanche	1227 Zimmerman Geo R ®
713 McCall Ezekiel W FE9-8376	FE9-6968
713 McCan Ezerlei W FES-6570 714 Terrell Ivan D @ FE2-4022	E Canal ends
715 Lafferty Hugh H FE9-8378	1301 Hirsch Clarence F @
717 Osting Norman E	FE9-9547
7171/2 Noonan Mary E @ FE9-8377	1304 Frank Robt W 339-6967
720 Johnston Richd E @ FE2-6723	1306 Dorner John J FE9-3091
723 Schultz David H @ FE9-8308	1306½ Frings Carl S 1307 Vacant
S Frank intersects	1301 Vacant

Target Street Cros

Cross Street

<u>t</u> <u>Source</u>

Polk's City Directory

E WATER ST 1962

1 WATER E—From 125 N Main east 3 State Bur of Mtr Vehicles FE9-3032 5 Wells Ralph W @ ins FE2-7705 7 Shurben Nursing Home FE9-9074 Shurben Ray D FE9-9074 10 Vacant 13 Epler Ennis K FE5-4021 13½ Dalzell Phil L FE2-4332 16 West Fred H @ 335-4855 17 Pearson Jos E @ FE5-5641 18 Gray Albert S @ FE9-3291 18½ Wilgus Bessie B Mrs FE5-4868 Stull Ruth D Mrs 335-4866 21 Hagen Axel FE5-4429 23 Wilson Ernest C FE2-3590 N Walnut intersects 101 Bunch C Gene © FE2-3597 107 Hufford Jacob A © FE9-8973 107½ Edmunds Harriet F Mrs FE9-8972 111 Vacant 1111/2 Martin Donna L Mrs FE5-5505 115 Robbins Grace P Mrs @ FE5-5062 116 Harris G Raymond @ FE5-5063 116½ Vorpe Geo W FE5-4051 121 Vacant 123 Vacant 124 Girls Civic League FE5-4235 124½ Smitley David J 332-7241 N Mulberry intersects 201 Overfield House The 204½ Rush Eva Mrs FE5-4010 206 Clegg Willard H 335-4016 209 Roeth's Appliances Inc FE5-4331 209½ McGuire Jas E 210 Hobart Cab Co (stge) 211 Zirkle Lbr Sls FE2-7447 211½ Jaeger Edwin L 213 Recore Arvie Music Center FE5-1166 215 Massie Plmb & Htg FE2-6082 **B&ORR** crosses S Clay intersects 310 Hobart Cabt Co (plant) FE9-8666 N Crawford intersects 405 Billhimer Martha A Mrs @ FE9-8564 409 Lutz Robt E @ 339-8562 413 Lutz Kittie Mrs 417 Catalano Michl @ FE5-4245 420 StPatrick Sch FE2-4277 423 Strine Robt W @ FE5-5318 431 Donovan Paul R @ 332-4718 439 Vacant 441 Brown-Bridge Mills Inc (stge) 444 Hunter Donald L 446 Fry Wm R 447 Brown-Bridge Mills Inc (stge) 450 Rodgers Cora E Mrs @ FE5-4546 **New intersects** Oak intersects 521-25 Brown-Ridge Mills Inc gummed paper FE2-1266 N Frank intersects

APPENDIX D SOIL SURVEY DATA



Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Miami County, Ohio



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2 053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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Contents

Preface	2
Soil Map	
Soil Map	
Legend	7
Map Unit Legend	8
Map Unit Descriptions	8
Miami County, Ohio	10
EIA—Eldean loam, 0 to 2 percent slopes	10
References	12

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.



MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons

-

Soil Map Unit Lines

Soil Map Unit Points

Special Point Features

(0)

Blowout

 \boxtimes

Borrow Pit

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Clay Spot

 \triangle

Closed Depression

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Gravel Pit

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Gravelly Spot

0

Landfill

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Lava Flow

446

Marsh or swamp

尕

Mine or Quarry

Miscellaneous Water

0

Perennial Water

0

Rock Outcrop

+

Saline Spot

...

Sandy Spot

0

Severely Eroded Spot

Sinkhole

Slide or Slip

Ø

Sodic Spot

LLGLIND



Spoil Area



Very Stony Spot



Wet Spot Other

Stony Spot



Special Line Features

Water Features

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Streams and Canals

Transportation

ransp

Rails

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Interstate Highways

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US Routes



Major Roads



Local Roads

Background

Marie Control

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15.800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Miami County, Ohio Survey Area Data: Version 18, Sep 16, 2019

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Oct 14, 2015—Mar 28, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
EIA	Eldean loam, 0 to 2 percent slopes	4.6	100.0%
Totals for Area of Interest		4.6	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Custom Soil Resource Report

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Miami County, Ohio

EIA—Eldean loam, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: 2vzcq Elevation: 490 to 1,150 feet

Mean annual precipitation: 37 to 46 inches Mean annual air temperature: 48 to 55 degrees F

Frost-free period: 145 to 180 days

Farmland classification: All areas are prime farmland

Map Unit Composition

Eldean and similar soils: 90 percent Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Eldean

Setting

Landform: Outwash terraces

Landform position (two-dimensional): Summit Landform position (three-dimensional): Tread

Down-slope shape: Linear Across-slope shape: Linear Parent material: Loamy outwash

Typical profile

Ap - 0 to 12 inches: loam Bt - 12 to 23 inches: clay loam

BC - 23 to 30 inches: gravelly clay loam

C - 30 to 79 inches: stratified gravelly coarse sand to very gravelly sand to extremely gravelly coarse sandy loam

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: 20 to 40 inches to strongly contrasting textural

stratification

Natural drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to

high (0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 65 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Available water storage in profile: Low (about 3.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 2s

Hydrologic Soil Group: B Hydric soil rating: No

Minor Components

Warsaw

Percent of map unit: 5 percent Landform: Outwash terraces

Landform position (two-dimensional): Summit Landform position (three-dimensional): Tread

Down-slope shape: Linear Across-slope shape: Linear Hydric soil rating: No

Ockley

Percent of map unit: 4 percent Landform: Outwash terraces

Landform position (two-dimensional): Summit Landform position (three-dimensional): Tread

Down-slope shape: Linear Across-slope shape: Linear Hydric soil rating: No

Sleeth

Percent of map unit: 1 percent

Landform: Depressions on stream terraces Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Tread

Down-slope shape: Concave Across-slope shape: Linear Hydric soil rating: No

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APPENDIX E CORRESPONDENCE DOCUMENTATION

USER QUESTIONNAIRE

INTRODUCTION: In order to qualify for one of the *Landowner Liability Protections (LLPs)* offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "Brownfields Amendments"), the user must conduct the following inquiries required by 40 CFR 312.24, 312.28, 312.29, 312.30, and 312.31. The user should provide the following information to the *environmental professional*. Failure to conduct these inquiries could result in a determination that "all appropriate inquiries" is not complete.

(1)	Environmental liens that are filed or recorded against the property. (40 CFR 312.25). Question: Are you aware of any environmental cleanup liens against the property that are filed federal, tribal, state, or local law? Yes: No: If yes, please provide details below, or attach a separate sheet.	or reco	orded (under	
	Buyer not aware				
(2)	Activity and use limitations that are in place on the property or that have been filed or record (40 CFR 312.26(a)(1)(v) and vi)). Question: Are you aware of any AULs, such as engineering controls, land use restrictions or inst are in place at the site and/or have been filed or recorded in a registry under federal, tribal, sta Yes: No: If yes, please provide details below, or attach a separate sheet.	itution	al cont	rols th	
(3)	Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.2 Question: As the user of this ESA do you have any specialized knowledge or experience related nearby properties? For example, are you involved in the same line of business as the current or property or an adjoining property so that you would have specialized knowledge of the chemical by this type of business? Yes: No: Yes, please provide details below, or attach a separate sheet.	to the forme	r occup	oants o	of the ed
	if yes, please provide details below, or attach a separate sneet.				
(4)	Relationship of the purchase price to the fair market value of the property if it were not conta 312.29). Question: Does the purchase price being paid for this property reasonably reflect the fair market Yes:	et value	e of the		erty?
(5)	Commonly known or reasonably ascertainable information about the property (40 CFR 312.30 Question: Are you aware of commonly known or reasonably ascertainable information about the help the environmental professional to identify conditions indicative of releases or threatened Yes: No:	e prop	erty thes?	at wou	ıld
	For example, as a user, (a) Do you know the past uses of the property?	Yes	***************	No:	X
	 (b Do you know of specific chemicals that are present or once were present at the property? (c) Do you know of spills or other chemical releases that have taken place at the property? 	: Yes : Yes	Mentionalism	No:	X
	(d Do you know of any environmental cleanups that have taken place at the property?	: Yes :	Michiel Michiel Survey.	No:	X
(6)	The degree of obviousness of the presence of likely presence of contamination at the property detect the contamination by appropriate investigation (40 CFR 312.31). Question: As the user of this ESA, based on your knowledge and experience related to the proposition obvious indicators that point to the presence or likely presence of contamination at the property Yes: Yes: No: If yes, please provide details below, or attach a separate sheet Jublic Information	erty ar		-	

In addition, certain information should be collected, if available, and provided to the <i>environmental professional</i> a MAKSolve. This information is intended to assist the <i>environmental professional</i> , but is not necessarily required to qualify for one of the LLPs. The information includes: (a) the reason why the Phase I is being performed,
To dentify potential reques across to sale
(b) the type of property and type of property transaction, for example, sale, purchase, exchange, etc.,
(c) the complete and correct address for the property (a map or other documentation showing property location and boundaries is helpful), 518 Water Street + Laddrhoral lot owned. Troy, Ohio (d) the scope of services desired for the Phase I (including whether approperty transaction may)
(d) the scope of services desired for the Phase I (including whether any parties to the property transaction may have a required standard scope of services or whether any considerations beyond the requirements of Practice E 1527 are to be considered),
(e) identification of all parties who will rely on the Phase I report,
Any potential builer SI-the peoperty
(f) identification of the site confact and how the contact can be reached,
Stuart Postle Cell 937-418-0388
(g) any special terms and conditions which must be agreed upon by the environmental professional, and
Not aware of any
(h) any other knowledge or experience with the property that may be pertinent to the environmental professions (for example, copies of any available prior environmental site assessment reports, documents, correspondence etc., concerning the property and its environmental condition).
1/000
To the best of the signatory's knowledge, as of the date hereof, the answers given in this questionnaire are deemed accurate. No active environmental investigation has been personally conducted by the signatory. Furthermore, this certification shall not be construed to constitute a professional opinion or an all-inclusive report but, rather, merely a disclosure of information known to the signatory as of the date hereof.
Signature 3/6/2070 Date
Michael Gearhardt
Frince Name Frest dent Title/Affiliation with Subject Property
5/8 Waster LLL Company Name
anisharit inniin

(7)

Reference: ASTM E 1527-13 "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process," Appendix X3.



March 9, 2021

Mr. Tim Davis, Director of Planning and Zoning City of Troy Development Department City Hall, South Annex 102 South Market Street Troy, OH 45373

VIA email: tim.davis@troyohio.gov

Subject Property:

Spinnaker Coating, former Kimberly Clark

518 East Water Street, Troy, OH 45373

Parcel ID: D08-101816

Mr. Davis:

MAKSolve is conducting a Phase I Environmental Site Assessment of the aforementioned property. As part of the site assessment, we are interested for information regarding the current zoning, if any code violations are on file for the subject property and if the city maintains any archived building records or permits for this facility.

You can send your response to my attention at john@maksolve.com, FAX me at 937-660-6845, or mail it to my attention at the address below.

If you have any questions regarding this submittal, please call me at 513-383-0233.

Thank you.

John Bowen MAKSolve

John Bour



March 9, 2021

Ms. Veronica Showalter

VIA email: veronica.showalter@troyohio.gov

Fiscal Manager

City of Troy, Ohio Utility Billing & Collection

100 South Market Street

Troy, OH 45373

Subject Property: Spinnaker Coating, former Kimberly Clark

518 East Water Street, Troy, OH 45373

Parcel ID: D08-101816

Ms. Showalter:

MAKSolve is conducting a Phase I Environmental Site Assessment of the aforementioned property. As part of the site assessment, we are requesting a records review regarding the property. Specifically, we are requesting:

Date of water connection
Water violations (if applicable)
Date of sewer hookup
Special sewer permits (if applicable)
Sewer discharge violations (if applicable)
Information regarding any current or historic septic tank systems (if applicable)

You can send your response to my attention at john@maksolve.com, FAX me at 937-660-6845, or mail it to my attention at the address below.

If you have any questions regarding this submittal, please call me at 513-383-0233.

Thank you.

John Bowen MAKSolve

John Bour





MEMO

TO Mr. Bowen

FROM Sue Knight

DATE March 11, 2021

SUBJECT: PUBLIC RECORDS REQUEST – SPINNAKER COATING

In response to your public records request (attached) to Mr. Davis, the City of Troy provides the following:

- -The current zoning? M-2 Light Industrial Zoning District
- -If any code violations are on file for the subject property? No open violations at this time
- -If the city maintains any archived building records or permits for this facility? Yes, but cannot guarantee all records as the records retention policy is five years or no longer of administrative value.

In response to your public records request (attached) to Ms. Showalter, the City of Troy provides the following:

- -Water Connected 9/1/1985
- -Water Violations None with Troy
- -Date of Sewer Hookup $-\frac{9}{1}\frac{1985}{1}$
- -Special Sewer Permits None with Troy
- -Sewer Discharge Violations None with Troy
- -Information regarding an current or historic septic tank systems None with Troy

Assistant City Engineer Christy Butera has provided the following:

This site has no history of sewer or water violations with Troy. They were never required to be in the City's sanitary pretreatment program and we have no record of City enforcement actions against them at the Water Street site.

Miami County Health Department would be the governing agency over any wells or septic systems if they ever existed on this property.

USEPA should be contacted for any information regarding the Superfund site activity at this location.

With this information, I believe the City of Troy has responded to your public records request. Should you have any questions, please do not hesitate to contact me.

Best Regards Sue Knight 937-335-1725



March 9, 2021

Assistant Chief Gary Stanley Fire Prevention Troy Fire Department 1528 North Market Street Troy, Ohio 45373 VIA email: Gary.Stanley@troyohio.gov

Subject Property: Spinnaker Coating, former Kimberly Clark

Am Bowen

518 East Water Street, Troy, OH 45373

Parcel ID: D08-101816

Asst. Chief Stanley:

MAKSolve is conducting a Phase I Environmental Site Assessment of the aforementioned property. As part of the site assessment, we are requesting a records review regarding any calls, complaints, hazardous materials incidents, spills, releases, Aboveground Storage Tanks (ASTs), Underground Storage Tanks (USTs), fire code violations or other environmentally related issues that may be on file for this location.

You can send your response to my attention at john@maksolve.com, FAX me at 937-660-6845, or mail it to my attention at the address below.

If you have any questions regarding this submittal, please call me at 513-383-0233.

Thank you.

John Bowen MAKSolve From: <u>Dan Stine</u>

To: <u>larry@maksolve.com</u>

Subject: RE: Environmental Records Request-110 E Canal Street & 215 S Mulberry Street

Date: Tuesday, March 17, 2020 8:24:45 AM

Correction to Phase I Environmental Survey:

Reported on Tier II Hazardous Material list: Battery Acid in the amounts of - 10#; 305#; 279#; 440#; 1500#; 92#; & 309# used for Tow Motors.

Phase I Environmental Site Assessment for:

The property listed at:

518 East Water St.; Troy, OH. 45373

We have NO records or files of any of the following:

Underground Storage Tanks (UGTs) installed or removed.
Above Ground Storage Tanks (AGTs) installed or removed.
Hazardous material storage.
Hazardous material leaks or spills.
Pending violations or outstanding Fire related issues.

Thanks.

Daniel J. Stine
Fire Inspector / Investigator
Troy Fire Prevention Bureau
40 S. Stanfield Rd.
Troy, Ohio 45373

Office: 937-335-2227 Fire Dept: 937-335-5678 From: <u>Dan Stine</u>

To: <u>larry@maksolve.com</u>

Subject: RE: Environmental Records Request-110 E Canal Street & 215 S Mulberry Street

Date: Tuesday, March 17, 2020 8:19:05 AM

Phase I Environmental Site Assessment for:

The property listed at:

518 East Water St.; Troy, OH. 45373

We have NO records or files of any of the following:

Underground Storage Tanks (UGTs) installed or removed. Above Ground Storage Tanks (AGTs) installed or removed. Hazardous material storage. Hazardous material leaks or spills. Pending violations or outstanding Fire related issues.

Thanks.

Daniel J. Stine
Fire Inspector / Investigator
Troy Fire Prevention Bureau
40 S. Stanfield Rd.
Troy, Ohio 45373

Office: 937-335-2227 Fire Dept: 937-335-5678 From: <u>Dan Stine</u>
To: <u>John Bowen</u>

Subject: RE: Spinnaker Coating - FOIA

Date: Wednesday, March 10, 2021 10:05:14 AM

SPINNAKER COATING 518 E. Water St. Troy, OH. 45373

Environmental Site Assessment for the above business & location -

We have NO records of any calls, complaints, hazardous materials incidents, spills, releases, AGTs or UGTs, fire code violations or any other environmentally related issues at this time.

Thanks.

Daniel J. Stine
Fire Inspector / Investigator
Troy Fire Prevention Bureau
40 S. Stanfield Rd.
Troy, Ohio 45373

Office: 937-335-2227 Fire Dept: 937-335-5678

Sent from my iPhone

Begin forwarded message:

From: John Bowen < john@maksolve.com > Date: March 9, 2021 at 3:22:12 PM EST

To: Gary Stanley <gary.stanley@troyohio.gov>

Subject: Spinnaker Coating - FOIA

Please See attached freedom of information act request for Spinnaker Coating.

Thanks

John Bowen Vice-President of Operations MAKSolve, LLC 261 Regency Ridge Drive Dayton, OH 45459

(937) 815-6949 - Office (513) 383-0233 Cell (937) 660-6845 — Fax www.maksolve.com



Via Email: info@miamicountyhealth.net

March 9, 2021

Miami County Health District 510 West Water Street, Suite 130 Troy, OH 45373

Subject Property: Spinnaker Coating, former Kimberly Clark

John Bowen

518 East Water Street, Troy, OH 45373

Parcel ID: D08-101816

To Whom it May Concern:

MAKSolve is conducting a Phase I Environmental Site Assessment of the aforementioned property. As part of the site assessment, we are requesting a records review regarding any calls, complaints, code violations, wells or septic systems or other environmentally related issues that may be on file for this location.

You can send your response to my attention at john@maksolve.com, FAX me at 937-660-6845, or mail it to my attention at the address below.

If you have any questions regarding this submittal, please call me at 513-383-0233.

Thank you.

John Bowen MAKSolve From: Ron Jackson

To: larry@maksolve.com

Cc: Angela Benedict

Subject: 518 E. Water St. Troy, OH

Date: Tuesday, March 17, 2020 8:30:37 AM

Larry,

We have nothing on file for the above address.

Ron Jackson R.S.

Miami County Public Health 510 W. Water St., Suite 130 Troy, OH 45373-2985

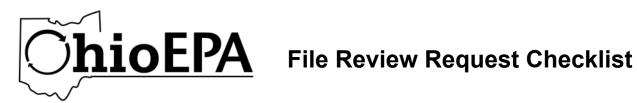
Phone: 937-573-3539 Fax: 937-573-3502

Web: www.miamicountyhealth.net

Email: rjackson@miamicountyhealth.net



NOTICE OF CONFIDENTIALITY: This email message, including any attached files, is intended only for the person or entity to whom it is addressed and may contain confidential and/or privileged material. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering this communication to the intended recipient, you are notified that any review, use, distribution, dissemination, downloading, copying or disclosure is strictly prohibited. If you have received this communication in error, please delete it, as well as any copies, from your system, and notify the sender by reply email. Miami County Public Health, 510 W Water Street, Troy, Ohio 45373. (937)573-3500 V, (937)573-3501 F.



Please Note: Pursuant to Ohio Revised Code 149.43(B)(5), you are not required to fill out this checklist or otherwise provide any public records request in writing. This checklist is intended to help facilitate your public records search by listing the manner in which records are generally maintained by Ohio EPA and accessed in the ordinary course of Ohio EPA's duties.

Requester Name:	John bowen	Affiliation: MAKSolve	Э				
	261 Regency Ridge D	rive					
City:	Dayton	State: OH Zip:	45459				
Requester Phone #:	513-383-0233	<u> </u>					
Requester Email:	john@maksolve.com						
. RECORDS REQUESTED):	Please list all names the facility r	nav have operat				
acility or Site Names and	_	under during the period of interest.					
lame	Address	City	County				
pinnaker Coating	518 East Water Street	Troy	Miami				
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	identifying information:	Parcel IDs: OHD08864828	2				
2. DATE RANGE FI	rom: <u>1900</u>	To : March 2021					
3. <u>DIVISIONS AND MA.</u>	JOR PROGRAM AREAS:						
Division of Air Pollution	Control (DAPC):	Division of Surface Water (DSW)	:				
Stack Tests	€	Nonpoint Source					
Asbestos Emission	Controls	NPDES/Pretreatment					
Air Permits		Ctorm Motor					
	<u> </u>	Storm Water					
Open Burning Reg	_	Surface Water Permits to	Install				
Open Burning Reg Ambient Air Monit	toring	Surface Water Permits to Sludge Management					
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	RCRA Groundwater Files	Plan approvals, well logs, etc.
X	RCRA Closure Files	Ground Water Quality Characterization
X	Voluntary Action Program (VAP) Files	Underground Injection Control files
X	Site Assessments	
Divis	ion of Materials and Waste Management (DM	WM):
Solid	Waste Section:	Hazardous Waste Section:
	Construction and Demolition Debris (Cⅅ)	Cessation of Regulated Operations
	Scrap Tires	RCRA C-Hazardous Waste
	Composting	
	Open Dumping	
	Infectious Waste	
	Municipal Solid Waste Landfills/Incinerators	
	Municipal Solid Waste Transfer Stations	
	Residual/Industrial Solid Waste Landfills	
	Solid Waste Management Planning	
	Beneficial Use	
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4. <u>C</u>	Nomination Facilities Plan Approval (as applicable) Performance Certification Approval (as applica Signed Final Exhibit WRRSP Annual Reports STAG (project plan, proof of publication, FONSI issued OMMON PUBLIC DOCUMENT TYPES Final Permits/Licenses/Authorizations Inspection Reports/Checklists Director's Final Findings and Orders District Office Investigation Reports Financial Assurance Documents Water Plant Operator Certifications Settlement Correspondence	Application Application PTI Approval (as applicable) ble) Final Loan Agreement WRRSP Signed Covenants By USEPA, Notification of STAG grant award from USEPA Notices of Violation Emergency Response Incident Reports Discharge Monitoring Reports (DMRs) Public Notice/Public Hearing Transcript Wastewater Operator Certifications Return to Compliance Letters Bilateral Compliance Agreements



Emergency Response Section - Initial Pollution Incident Report (IPIR)

3/10/2021

Spill Id Number: 9805-55-2038//0 District: SW

Reported By: RON KLENK Reported: 05/22/1998 15:34

Title: ENGINEER Discovered: 05/14/1998 12:00

Telephone: (937) 332-6584 ext: Occurred: 00/00/0000

Affiliation: COMPANY Chronic: N

County: MIAMI City/Township: TROY

Did Spiller Report ? Y Complaint ? N

Received By: HOLMES, CHRIS Priority: 3

Local EPC? N Did you tell the Spiller to Call the N.R.C? N

Business: Y SARA Report: Y

Suspected Spiller: SPINNAKER COATING

Mailing Address: 518 E WATER ST

TROY, OH 45373

Telephone: (000) 000-0000 ext:

Location: 518 E WATER ST

Source: FIXED FACILITY - INDUSTRY - STACK RELEASE-AIR

Cause: PROCESS MALFUNCTION Reason: BREAK OR BROKEN

Waterways Affected: N/A Media Affected 1: AIR Media Affected 2: Media Affected 3:

Product(s) Spilled

Product	Amount	UOM	RQ	Size	Туре	EHS
TOLUENE	.0	UNK	.0	U	С	N

Other Agencies Notified

Agency	Person	Date	Time
RTK	LUFKIN	00/00/0000	
DAPC	HINNRICHS	00/00/0000	
DHWM	PARDI	00/00/0000	
LOCAL APC	FAXED	00/00/0000	

Remark

UNK AMOUNT OF TOLUENE RELEASED FROM EQUIPMENT FAILURE. RELEASED OCCURRED WITH THE PAPER COATING PROCESS. COMPANY WILL CONTINUE TO INVESTIGATE AND NOTIFY OF FINAL AMOUNT OF MATERIAL RELEASED.

Emergency Response Section - Initial Pollution Incident Report (IPIR)

3/10/2021

Spill Id Number: 9805-55-2134//0 District: SW

Reported By: CINDY GERNIGAN **Reported:** 05/28/1998 16:20

Title: ENVIRONMENTAL Discovered: 05/28/1998 11:30

Telephone: (770) 587-7014 **ext: Occurred:** 05/06/1998

Affiliation: COMPANY Chronic: N

County: MIAMI City/Township: TROY

Did Spiller Report ? Y Complaint ? N

Received By: HOLMES, CHRIS

Local EPC? N

Did you tell the Spiller to Call the N.R.C? N

Business: N

SARA Report: N

Suspected Spiller: KIMBERLY CLARK CORP/ BROWN BRIDGE IN

Mailing Address: 518 E WATER ST

TROY, OH 45373

Telephone: (000) 000-0000 ext:

Location: 518 E WATER ST

Source: FIXED FACILITY - INDUSTRY - WASTE SYSTEM

Cause: PERMIT VIOLATION Reason: UNKNOWN REASONS

Waterways Affected: GREAT MIAMI RIVER Media Affected 1: SURFACE WATER/STORM

Media Affected 2: Media Affected 3:

Product(s) Spilled

ProductAmountUOMRQSizeTypeEHSWASTE WATER.0UNK.0UWWN

Other Agencies Notified

 Agency
 Person
 Date
 Time

 DSW/WW
 BURT
 00/00/0000

Remark

NPDES VIOLATION FOR TOLUENE. LIMIT 10 PPB AND THE READING WAS 12 PPB. COMPANY WILL SEND A LETTER TO THE DISTRICT OFFICE.

OHIO E.P.A.

MAR 13 2001

ENTERED DIRECTOR'S JOURNAL

BEFORE THE

OHIO ENVIRONMENTAL PROTECTION AGENCY

In the Matter of:

Kimberly-Clark Corporation 1400 Holcomb Bridge Road Roswell, Georgia 30076-2199 Director's Final Findings and Orders

I. JURISDICTION

1. These Director's Final Findings and Orders ("Orders") are issued pursuant to the authority vested in the Director of the Ohio EPA under Sections 3734.13, 3734.20, 6111.03, and 3745.01 of the Ohio Revised Code.

II. PARTIES BOUND

- 2. These Orders shall apply to and be binding upon Kimberly-Clark Corporation ("Kimberly-Clark"), its agents, successors, and assigns.
- 3. No change in ownership or corporate status of Kimberly-Clark including, but not limited to, any transfer of assets or real or personal property shall in any way alter Kimberly-Clark's obligations under these Orders.
- 4. Kimberly-Clark shall provide a copy of these Orders to all contractors, subcontractors, laboratories and consultants retained to perform any portion of the Work performed pursuant to these Orders. Kimberly-Clark shall ensure that all contractors, subcontractors, laboratories and consultants retained to perform Work pursuant to these Orders comply with the provisions of these Orders.

III. DEFINITIONS

5. Unless otherwise expressly provided herein, terms used in these Orders or in any appendices shall have the same meaning as used in Chapters 3734 and 6111 of the Ohio Revised Code. Whenever the terms listed below are used in these Orders or in any appendices, attached hereto and incorporated herein, the following definitions shall apply:

- a. "Day" shall mean a calendar day unless expressly stated to be a business day. "Business day" shall mean a day other than a Saturday, Sunday, or State Holiday. In computing any period of time under these Orders, where the last day would fall on a Saturday, Sunday, or State Holiday, the period shall run until the close of the next business day.
- b. "NCP" shall mean the National Oil and Hazardous Substances Pollution Contingency Plan, codified at 40 C.F.R. Part 300 (1990), as amended.
- c. "Ohio EPA" shall mean the Ohio Environmental Protection Agency and its designated representatives.
- d. "Paragraph" shall mean a portion of these Orders identified by an Arabic numeral or an upper or lower case letter.
 - e. "Parties" shall mean Kimberly-Clark and the Ohio EPA.
- f. "Risk Assessment Guidance for Superfund" ("RAGS") shall mean <u>RAGS</u>: <u>Volume 1 Human Health Evaluation Manual, Part B, Development of Risk-based Preliminary Remediation Goals, OSWER Directive 9285.7-01B, December, 1991, Interim attached hereto and incorporated herein as Attachment B of these Orders.</u>
- g. "Section" shall mean a portion of these Orders identified by a roman numeral.
- h. "Site" shall mean the property located at 518 East Water Street, Troy, Miami County, Ohio, commonly referred to as "Brown-Bridge Plant 1," where the treatment, storage, and/or disposal of hazardous waste, and/or the discharge into waters of the state of industrial waste or other waste has occurred, including any other area where such hazardous wastes, industrial wastes, and/or other wastes have migrated or threaten to migrate.
- i. "Waste Material" shall mean (1) any "hazardous waste" under Section 3734.01(J) of the Ohio Revised Code; (2) any "solid waste" under Section 3734.01(E) of the Ohio Revised Code; (3) any "industrial waste" under Section 6111.01(C) of the Ohio Revised Code; and (4) any "other waste" under Section 6111.01(D) of the Ohio Revised Code.
- j. "Work" shall mean all activities Kimberly-Clark is required to perform under these Orders.

IV. FINDINGS OF FACT, DETERMINATIONS, AND CONCLUSIONS OF LAW

- 6. All findings of fact, determinations, and conclusions of law necessary for the issuance of these Orders pursuant to Sections 3734.13, 3734.20, 3745.01 and 6111.03 of the Ohio Revised Code have been made and are outlined below. Ohio EPA has determined the following:
- a. Kimberly-Clark acquired the property located at 518 East Water Street in Troy, Miami County, Ohio (the "Site") as a result of a merger with Brown-Bridge Mills, Inc. on December 31, 1977. The Site consists of approximately 5 acres of land adjacent to the flood plain of the Great Miami River. Prior to September, 1994, the Site was used for the manufacture of pressure, moisture, and heat sensitive stock for labels, stamps, and related items.
- b. Brown-Bridge Industries acquired the Site from Kimberly-Clark on September 16, 1994. In 1998, Brown-Bridge Industries changed its name to Spinnaker Coating, Inc. ("Spinnaker"). Spinnaker continues to utilize this facility for the manufacture of pressure, moisture, and heat sensitive stock for labels, stamps, and related items.
- c. Toluene, as product, was stored in bulk tanks at the bulk storage area at the west end of the Site. The Site formerly contained a toluene recovery system at the west end which included a 3000 gallon flow through process tank. The flow through process tank was removed in 1988.
- d. There are known to have been at least four instances of releases at the Site, including the following:
 - i. According to Kimberly-Clark, during due diligence interviews associated with the sale of the Site to Brown-Bridge, it was discovered that in 1986 or 1987, approximately 15 to 25 gallons of toluene overflowed from a virgin toluene tank at the bulk chemical storage tank location on the Site's west end.
 - ii. According to Kimberly-Clark, in July, 1988, above-ground piping to a toluene storage tank was found to be leaking during a regularly scheduled tank-tightness test. The quantity discharged during this release has not been determined.
 - iii. According to an initial pollution incident report prepared by Ohio EPA, an

estimated 4000 pounds of toluene leaked into the atmosphere over several days prior to its discovery on April 12, 1989. The leak apparently was due to a malfunctioning steam valve at the toluene recovery system.

- iv. According to an initial pollution incident report prepared by Ohio EPA, an estimated 500 gallons of toluene leaked from the toluene recovery system to the ground underneath the system on January 25, 1994.
- e. Analysis of ground-water samples from the Site conducted by Kimberly-Clark in October, 1993 and July, 1994 showed the presence of the following compounds at levels presented below:

Chemical	Concentration (μg/l)
Toluene	320,000
Benzene	62
1,1,1-Trichloroethane	270
Tetrachloroethene	28
Trichloroethene	400
Vinyl Chloride	170
Cis-1,2- dichloroethene	230

- f. Contaminated ground water at the Site is located approximately 900 feet upgradient from a City of Troy production well. According to the City's well head protection program, the Site is located within the one-year capture zone of the City's well field.
- g. Kimberly-Clark's consultant, Applied Engineering & Science, Inc. (AES), in a report dated August, 1994, determined that ground-water contamination is migrating downgradient in a northeasterly direction off the Site onto adjacent property.
- h. Two areas of soil and ground water contamination, on the east and west portions of the property, were identified by AES.

- i. In April 1995, approximately 1525 cubic yards of contaminated soils were excavated and removed from the bulk storage and nonhazardous waste storage areas of the Site. Soil samples collected from these areas contained trichloroethene at concentrationsup to $29,000\mu g/kg$, 1,1,1-trichloroethane at concentrations up to $1400\mu g/kg$, and tetrachloroethene at concentrations up to $790\mu g/kg$.
- j. The material excavated from the bulk storage area was placed in roll-off containers. One container was manifested as hazardous waste due to its trichloroethene content.
- k. In the summer of 1995, a ground water treatment system was installed on the west end of the property and an air sparging/vapor extraction system was installed on the east end. Both systems began operation on September 6, 1995.
- I. In February 1997, Kimberly-Clark and Brown-Bridge determined that, according to ground water monitoring, their cleanup goals had been reached for the east end. The air sparging stopped in March 1997, while vapor extraction continued until January 1998.
- m. The West End pump-and-treat system consists of four pumping wells and an air stripper to treat the water. The treated water was discharged to the Great Miami River under a NPDES discharge permit.
- n. Ohio EPA invited Kimberly-Clark to negotiate an administrative order for the performance of a Remedial Investigation and Feasibility Study ("RI/FS") in 1997. At that time, Kimberly-Clark declined to enter into the administrative order stating that "continuation of the voluntary cleanup appears to be the most cost effective way to insure completion of the Site cleanup." Ohio EPA decided to change the scope of work from an RI/FS to operation and maintenance of the West End pump and treat system, with a provision for periodic evaluation of the effectiveness of the system. Kimberly-Clark declined to enter into an order that included the evaluation of effectiveness provision.
- o. In a letter dated February 14, 2001, Kimberly-Clark stated that it had "completed the soil and ground water remediation project at Spinnaker Coating Facility ..." and that it planned to shut down the system on March 1, 2001. In response to this letter, Ohio EPA sent correspondence to Kimberly-Clark on February 27, 2001 asking that the system not be shut down because of concerns that the City of Troy's public water supply wells could be jeopardized. Ohio EPA suggested that a meeting take place before any action was taken and asked for possible dates to meet. On March 1, 2001, Kimberly-Clark proceeded to shut down the pump and treat system without waiting to meet with Ohio EPA to hear Ohio EPA's concerns.

p. Kimberly-Clark collected ground-water samples on a quarterly basis from the pumping wells and monitoring wells at the Site. The analytical results for vinyl chloride from pumping wells 3 and 4 and vinyl chloride and trichloroethene from pumping well 3 and monitoring well KMW-9 for the years 1999 and 2000 follow. The results show that the concentrations of vinyl chloride and trichloroethene exceed Federal and state drinking water maximum contaminant levels (MCLs). Pumping wells 3 and 4 and monitoring well KMW-9 lie between the bulk storage area and Troy's east well field.

Vinyl Chloride

Well	3/15/99	6/16/99	9/2/99	12/16/99	3/1/00	6/6/00	9/7/00	12/13/00
PW-3	6 .	7	13	n	2.0	6.7	9.2	8.0
PW-4	n	3	1	1.1	n	n	n	3.7
	Trichloroethene							
Well	3/15/99	6/16/99	9/2/99	12/16/99	3/1/00	6/6/00	9/7/00	12/13/00
PW-3	3	9	3	1.1	2.1	3.4	12	9.5
KMW-9	1	12	n	7.8	2.6	n	16	7.4

Notes:

All values are in μ g/l.

n - not detected

Boldface denotes values greater than federal and state drinking water MCLs.

The MCL for vinyl chloride is 2.0 μ g/l.

The MCL for trichloroethene is $5.0\mu g/l$.

- q. On May 23, 24 and 25, 2000, Ohio EPA collected ground-water samples from borings RS02, RS03, RS04, and RS06 along the northeast side of the Spinnaker building between the facility and Troy's east well field. Trichloroethene was detected in boring RS02 at 72 μ g/l, in boring RS03 at 70 μ g/l, in boring RS04 at 5 μ g/l, and in boring RS06 at 9.6 μ g/l. Vinyl chloride was detected in boring RS04 at 3.5 μ g/l and in boring RS06 at 2.8 μ g/l.
- r. Trichloroethene and tetrachloroethene in soil and ground water will degrade to form cis-1,2-dichloroethene. Analysis performed during the excavation and removal of soils from the Site did not include cis-1,2-dichloroethene, which has been detected in Site wells. Generally, wells downgradient from the bulk storage and nonhazardous waste storage areas have shown higher concentrations of cis-1,2-dichloroethene than upgradient

wells.

- s. The City of Troy analyzes its well water for volatile organic compounds periodically (generally, once per quarter). Cis-1,2-dichloroethene has been detected in Troy's east well field since 1988. Trichloroethene was detected in the east well field in 1990.
- t. Ohio EPA conducted a pump test of the aquifer beneath the Site in November, 2000. The pump test demonstrated that shallow ground water beneath the Site is hydraulically connected to Troy's east well field, that contaminants in ground water at the Site will migrate to the east well field, and that the Great Miami River does not form a hydraulic barrier preventing the migration of contaminants from the site to the east well field.
- u. Without the operation of the ground-water pump and treat system, increased concentrations of trichloroethene, cis-1,2-dichloroethene, and vinyl chloride will migrate to Troy's east well field.
- v. Kimberly-Clark is a "person" as defined under Section 3734.01(G) of the Ohio Revised Code.
- w. Because of their quantity, concentration, or physical or chemical characteristics, the Director has determined that toluene, benzene, 1,1,1-trichloroethane, tetrachloroethene, trichloroethene, vinyl chloride, cis-1,2-dichloroethene and other contaminants found at the Site are "hazardous wastes" as defined under Section 3734.01(J) of the Ohio Revised Code.
- x. The Site is a hazardous waste facility, solid waste facility, or other location where hazardous waste was treated, stored, or disposed.
- y. Conditions at the Site constitute a substantial threat to public health or safety or are causing or contributing or threatening to cause or contribute to air or water pollution or soil contamination.
- z. Kimberly-Clark is a "person" as defined under Section 6111.01(I) of the Ohio Revised Code.
- aa. The toluene, benzene, 1,1,1-trichloroethane, tetrachloroethene, trichloroethene, vinyl chloride, cis-1,2-dichloroethene, and other contaminants found at the Site are "industrial wastes" or "other wastes" as defined under Section 6111.01 of the Ohio

Revised Code.

- bb. The ground water and surface water at the Site are "waters of the state" as defined under Section 6111.01(H) of the Ohio Revised Code.
- cc. The Work required by these Orders will contribute to the prohibition or abatement of the discharge of industrial wastes or other wastes into the waters of the state.
- dd. In issuing these Orders, the Director has given consideration to, and based his determination on, evidence relating to the technical feasibility and economic reasonableness of complying with these Orders and to evidence relating to conditions calculated to result from compliance with these Orders, and their relation to benefits to the people of the state to be derived from such compliance.
- ee. Based upon information available to the Director as set forth in these Findings of Fact, the Director has determined that the work required by these Orders, set forth below, is in the nature of interim measures only, designed to contain, abate, mitigate and control contamination. The Director has given consideration to the evidence related to documented activities which have occurred and/or will occur at the Site. Based upon the facts presented, the Director believes that issuance of these Orders is furthering the intent of the General Assembly, that Ohio EPA will prevent, control or abate pollution of the environment for the protection and preservation of the health, safety, welfare and property of the people of the State.

V. GENERAL PROVISIONS

7. Objectives of the Orders

The objective of the Ohio EPA in issuing these Orders is to contribute to the protection of public health, safety, and welfare and the environment from the disposal, discharge, or release of Waste Material at the Site through the continued implementation and monitoring of the West End ground water pump and treatment system by Kimberly-Clark. Kimberly-Clark shall perform the Work in accordance with these Orders, including but not limited to, relevant guidance documents, and all standards, specifications, and schedules set forth in or developed pursuant to these Orders.

8. Compliance With Law

a. All activities undertaken by Kimberly-Clark pursuant to these Orders shall be performed in accordance with the requirements of all applicable federal and state laws

and regulations.

- b. Kimberly-Clark shall perform the activities required pursuant to these Orders in a manner which is not inconsistent with the NCP.
- c. Where any portion of the Work requires a permit or approval, Kimberly-Clark shall timely submit applications and take all other actions necessary to obtain such permits or approval. These Orders are not, and shall not be construed to be, a permit issued pursuant to any statute or regulation.

VI. PERFORMANCE OF THE WORK

- 9. Within five (5) days of the issuance of these Orders, Kimberly-Clark shall resume operation of the existing West End ground-water pump and treatment system described in the Site Remediation Report, found in Attachment A, until such time as the interim action ground-water compliance (IAGWC) standards described in Section VI., Paragraph 16 (a-d) of these Orders, are met and confirmed by the Ohio EPA. Kimberly-Clark shall maintain the West End ground water pump and treat system during its operation.
- 10. Kimberly-Clark shall evaluate the effectiveness of the West End ground-water pump and treatment system in preventing further migration of contamination from sources at the Site in accordance with the following provisions:
 - a. Within 45 days of the issuance of these Orders, Kimberly-Clark shall submit a work plan for evaluating the effectiveness of the West End ground-water pump and treatment system in preventing further migration of contamination from sources at the Site. The evaluation shall include the measurement of aquifer properties at the Site including vertical and horizontal hydraulic conductivity, specific yield, and gradient. The evaluation shall estimate the capture zone of the pumping wells using both empirical data collected from the Site and mathematical modeling. All models used to estimate the capture zones of the pumping wells shall be calibrated and verified. Scale drawings showing the estimated vertical and horizontal extent of the capture zones for the pumping wells shall be prepared. The work plan shall include a fixed-date schedule for conducting the evaluation and submitting a final report on the evaluation to Ohio EPA.
 - b. The work plan and final report shall be subject to the review, approval, or disapproval of Ohio EPA, in accordance with the provisions set

forth in Section XI of these Orders.

- c. Upon Ohio EPA's approval of the work plan, Kimberly-Clark shall implement the Work detailed therein in accordance with the schedule contained in the approved work plan.
- 11. Kimberly-Clark shall collect and analyze ground-water samples from all operating pumping wells on a quarterly basis.
- 12. Kimberly-Clark shall collect and analyze ground-water samples from the following Site wells on a quarterly basis: PW-1, PW-2, PW-3, PW-4, KMW-5, KMW-6, KMW-7, KMW-8, KMW-9, EEIB-2, EEIB-4, EEIB-12, GZA-1, RS04, and RS06.
- 13. Kimberly-Clark shall continue to collect water level measurements from the following Site wells on a quarterly basis: PW-1, PW-2, PW-3, PW-4, KMW-1, KMW-2, KMW-3, KMW-4, KMW-5, KMW-6, KMW-7, KMW-8, KMW-9, EEIB-2, EEIB-4, EEIB-7, EEIB-8, EEIB-9, EEIB-11, EEIB-12, GZA-1, GZA-2, RS04, and RS06.
- 14. Ground water samples shall be analyzed by EPA Method SW846-8260, with low detection limits (25 ml purge).
- 15. Ohio EPA may modify any portion of the ground-water monitoring program. Ohio EPA shall notify Kimberly-Clark in writing if any such modifications are determined to be warranted.
 - 16. **IAGWC** standards shall be determined according to the following procedure:
 - a. The Site contaminants of concern ("COC") are trichloroethene and vinyl chloride.
 - b. For each COC, identify the corresponding maximum contaminant level ("MCL") and calculate the residential water carcinogenic effects remediation goal (10⁻⁵) and the residential water non-carcinogenic effects remediation goal (HI=1) using equations 1' and 2' on pages 21 and 22 of the Risk Assessment Guidance for Superfund, Part B, found in Attachment B of these Orders. When using equation 1', substitute a target excess individual lifetime cancer risk value of 10⁻⁵ into the equation.
 - c. For each COC, select the lowest concentration from among the MCL,

the carcinogenic risk-based remediation goal, and the non-carcinogenic risk-based remediation goal.

- d. The value obtained in item "c" above becomes the IAGWC standard unless the value is less than 1.0 part per billion in which case 1.0 part per billion becomes the IAGWC standard.
- 17. Kimberly-Clark may petition the Ohio EPA to cease operation of the West End ground-water pump and treatment system should ground-water sampling and analysis indicate that the concentrations of each COC are less than the IAGWC standards for four consecutive quarters in the following wells: PW-1, PW-2, PW-3, PW-4, KMW-6, KMW-7, KMW-8, KMW-9, EEIB-2, EEIB-12, RS04, and RS06. Kimberly-Clark shall resample the ground-water approximately one week following receipt of the fourth consecutive quarter's sampling results to confirm whether the concentrations of each COC are less than the IAGWC standards. Following receipt of written concurrence from the Ohio EPA that the concentrations of each COC are less than the IAGWC standards, Kimberly-Clark may cease operation of the West End ground-water pump and treatment system.
- 18. Following the Ohio EPA-approved cessation of operation of the West End ground-water pump and treatment system, Kimberly-Clark shall continue to maintain the treatment system in such a manner as to allow for the resumed operation of the treatment system, if resumed operation of the system is required by Ohio EPA due to any exceedance of the IAGWC standards.
- 19. Following Ohio EPA-approved cessation of operation of the West End ground-water pump and treatment system, Kimberly-Clark shall continue ground-water analytical sampling on a quarterly basis for Site wells listed in Section VI., Paragraphs 12 and 13 of these Orders. If Kimberly-Clark's sampling results indicate that IAGWC standards have been exceeded during any sampling event, Kimberly-Clark shall resample the ground water approximately one week following receipt of the initial sampling results to confirm whether IAGWC standards have been exceeded. If the resampling results confirm that the IAGWC standards have been exceeded, Kimberly-Clark shall resume operation of the West End ground-water pump and treatment system, including the resumption of quarterly water level measurements, and continue quarterly ground-water analytical sampling. Kimberly-Clark shall notify Ohio EPA within twenty-four (24) hours of the resumption of operation of the treatment system if the sampling and resampling, as described above, show that the IAGWC standards have been exceeded.
- 20. These Orders shall not be eligible for termination pursuant to Section XVI, Termination, until eight (8) consecutive quarters of ground-water sampling and analysis

have demonstrated continued compliance with the IAGWC standards.

VII. SAMPLING AND DATA AVAILABILITY

- 21. Kimberly-Clark shall notify Ohio EPA not less than fifteen (15) days in advance of all sample collection activity. Kimberly-Clark shall allow split and/or duplicate samples to be taken by Ohio EPA. Ohio EPA shall also have the right to take any additional samples it deems necessary.
- 22. Within seven (7) days of a request by Ohio EPA, Kimberly-Clark shall submit to Ohio EPA copies of the results of all sampling and/or tests or other data, including raw data and original laboratory reports, generated by or on behalf of Kimberly-Clark with respect to the Site and/or the implementation of these Orders. Kimberly-Clark may submit to Ohio EPA any interpretive reports and written explanations concerning the raw data and original laboratory reports. Such interpretive reports and written explanations shall not be submitted in lieu of original laboratory reports and raw data. Should Kimberly-Clark subsequently discover an error in any report or raw data, Kimberly-Clark shall promptly notify Ohio EPA of such discovery and provide the correct information within seven (7) days.

VIII. ACCESS

- 23. Ohio EPA shall have access at all times to the Site and any other property to which access is required for the implementation of these Orders, to the extent access to the property is controlled by Kimberly-Clark. Access under these Orders shall be for the purposes of conducting any activity related to these Orders including, but not limited to the following:
 - a. monitoring the Work;
 - b. conducting sampling;
- c. inspecting and copying records, operating logs, contracts, and/or other documents related to the implementation of these Orders;
- d. conducting investigations and tests related to the implementation of these Orders; and
 - e. verifying any data and/or other information submitted to Ohio EPA.

- 24. To the extent that the Site or any other property to which access is required for the implementation of these Orders is owned or controlled by persons other than Kimberly-Clark, Kimberly-Clark shall use its best efforts to secure from such persons access for Kimberly-Clark and Ohio EPA as necessary to effectuate these Orders. Copies of all access agreements obtained by Kimberly-Clark shall be provided promptly to Ohio EPA. If any access required to effectuate these Orders is not obtained within thirty (30) days of the effective date of these Orders, or within thirty (30) days of the date Ohio EPA notifies Kimberly-Clark in writing that additional access beyond that previously secured is necessary, Kimberly-Clark shall promptly notify the Ohio EPA in writing of the steps Kimberly-Clark has taken to attempt to obtain access.
- 25. Notwithstanding any provision of these Orders, the State of Ohio retains all of its access rights and authorities, including enforcement authorities related thereto, under any applicable statute or regulations.

IX. DESIGNATED SITE COORDINATORS

- 26. Within five (5) days of the effective date of these Orders, Kimberly-Clark shall notify Ohio EPA, in writing, of the name, address and telephone number of its designated Site Coordinator and Alternate Site Coordinator. If a designated Site Coordinator or Alternate Site Coordinator is changed, the identity of the successor shall be given to the other Party at least five (5) days before the changes occur, unless impracticable, but in no event later than the actual day the change is made.
- 27. To the maximum extent practicable, except as specifically provided in these Orders, communications between Kimberly-Clark and Ohio EPA concerning the implementation of these Orders shall be made between the Site Coordinators. Kimberly-Clark's Site Coordinator shall be available for communication with Ohio EPA regarding the implementation of these Orders for the duration of these Orders. Each Site Coordinator shall be responsible for assuring that all communications from the other Party are appropriately disseminated and processed. Kimberly-Clark's Site Coordinator or alternate shall be present on the Site or on call during all hours of Work at the Site.
- 28. Without limitation of any authority conferred on Ohio EPA by statute or regulation, Ohio EPA Site Coordinator's authority includes, but is not limited to the following:
- a. taking samples and directing the type, quantity and location of samples to be taken by Kimberly-Clark pursuant to an approved work plan;

- b. observing, taking photographs, or otherwise recording information related to the implementation of these Orders, including the use of any mechanical or photographic device;
- c. directing that the Work stop whenever the Site Coordinator for Ohio EPA determines that the activities at the Site may create or exacerbate a threat to public health or safety, or threaten to cause or contribute to air or water pollution or soil contamination;
- d. conducting investigations and tests related to the implementation of these Orders;
- e. inspecting and copying records, operating logs, contracts and/or other documents related to the implementation of these Orders; and
 - f. assessing Kimberly-Clark's compliance with these Orders.

X. PROGRESS REPORTS AND NOTICE

- 29. Unless otherwise directed by Ohio EPA, Kimberly-Clark shall provide quarterly progress reports to the Ohio EPA concerning the work carried out by Kimberly-Clark during the previous quarter. The quarters shall be divided into the following reporting periods: the First Quarter shall be months January through March; the Second Quarter shall be months April through June; the Third Quarter shall be months July through September; and the Fourth Quarter shall be months October through December. The quarterly progress reports shall be submitted by the tenth (10) day of the first month following the reporting period. The quarterly progress reports shall include, at a minimum, the following information:
 - a. a description of the status of the Work and progress to date;
- b. summaries of all changes made in the interim measures during the reporting period;
- c. summaries of all contacts with representatives of the City of Troy, local community, public interest groups, county and state agencies, and government during the reporting period concerning the Work being done as a result of these Orders;
- d. summaries of all relevant findings including, but not limited to, water level measurements, flow maps, etc., from Site wells listed in Section VI., Paragraph 13 of these

Orders;

- e. summaries of all relevant findings including, but not limited to, analytical sampling results, etc., from Site wells listed in Section VI., Paragraphs 11 and 12 of these Orders:
- f. an accounting of how much contaminated ground water was pumped during the reporting period;
 - g. a description of the difficulties encountered during the reporting period;
 - h. a description of the actions taken to rectify any difficulties encountered;
 - i. a description of activities planned for the next quarter; and
 - j. an identification of changes in key project personnel.
- 30. Progress reports and all other documents required to be submitted pursuant to these Orders shall be sent by certified mail return receipt requested, or equivalent, to the following address, or to such other address as directed by Ohio EPA:

Ohio Environmental Protection Agency Lazarus Government Center P.O. Box 1049 Columbus, Ohio 43216-1049 ATTN: DERR Records Room

Ohio EPA
Southwest District Office
401 East Fifth Street
Dayton, Ohio 45402

ATTN: Brown Bridge Site Coordinator, DERR

XI. REVIEW OF SUBMITTALS

31. Ohio EPA will review any work plan, report, or other item required to be submitted pursuant to these Orders. Upon review, Ohio EPA may in its sole discretion: (a) approve the submission in whole or in part; (b) approve the submission upon specified conditions; (c) modify the submission; (d) disapprove the submission in whole or in part, notifying Kimberly-Clark of deficiencies; or (e) any combination of the above.

- 32. In the event of Ohio EPA's approval, approval upon condition, or modification of any submission, Kimberly-Clark shall proceed to take any action required by the submission as approved, conditionally approved, or modified by Ohio EPA.
- 33. In the event that Ohio EPA initially disapproves a submission, in whole or in part, and notifies Kimberly-Clark of the deficiencies, Kimberly-Clark shall, within fourteen (14) days, or such longer period of time as specified by Ohio EPA in writing, correct the deficiencies and resubmit to Ohio EPA for approval a revised submission. The revised submission shall incorporate all of the changes, additions, and/or deletions specified by Ohio EPA in its notice of deficiency. Notwithstanding the notice of deficiency, Kimberly-Clark shall proceed to take any action required by a non-deficient portion of the submission.
- 34. In the event that Ohio EPA disapproves a revised submission, in whole or in part, Ohio EPA may require Kimberly-Clark to correct the deficiencies and incorporate all changes, additions, and/or deletions within fourteen (14) days, or such period of time as specified by Ohio EPA in writing. Or, in the alternative, Ohio EPA retains the right to terminate these Orders, perform any additional remediation, conduct further Investigation, and/or enforce the terms of these Orders.
- 35. All work plans, reports, or other items required to be submitted to Ohio EPA under these Orders shall, upon approval by Ohio EPA, be deemed to be incorporated in and made an enforceable part of these Orders. In the event that Ohio EPA approves a portion of a work plan, report, or other item, the approved portion shall be deemed to be incorporated in and made an enforceable part of these Orders.

XII. RESERVATION OF RIGHTS

- 36. Ohio EPA reserves the right to seek legal and/or equitable relief to enforce the terms and conditions of these Orders, including penalties against Kimberly-Clark for noncompliance with these Orders.
- 37. Ohio EPA reserves the right to terminate these Orders and/or perform all or any portion of the Work or any other measures, including but not limited to conducting further investigation and/or remediation, in the event that the requirements of these Orders are not wholly complied with within the time frames required by these Orders.
- 38. Ohio EPA reserves the right to take any action, including but not limited to any enforcement action, action to recover costs, or action to recover damages to natural

resources, pursuant to any available legal authority as a result of past, present, or future violations of state or federal laws or regulations or the common law, and/or as a result of events or conditions arising from, or related to, the Site. Upon termination of these Orders pursuant to Section XVI, Termination, Kimberly-Clark shall have resolved its liability to Ohio EPA only for the Work performed pursuant to these Orders.

XIII. ACCESS TO INFORMATION

- 39. Kimberly-Clark shall provide to Ohio EPA, upon request, copies of all documents and information within its possession or control or that of its contractors or agents relating to events or conditions at the Site including, but not limited to manifests, reports, correspondence, or other documents or information related to the Work.
- 40. Kimberly-Clark may assert a claim that documents or other information submitted to the Ohio EPA pursuant to these Orders is confidential under the provisions of Rule 3745-50-30(A) of the Ohio Administrative code or Section 6111.05(A) of the Ohio Revised Code. If no such claim of confidentiality accompanies the documents or other information when it is submitted to Ohio EPA, it may be made available to the public without notice to Kimberly-Clark.
- 41. Kimberly-Clark may assert that certain documents or other information are privileged under the attorney-client or any other privilege recognized by state law. If Kimberly-Clark makes such an assertion, it shall provide Ohio EPA with the following: (1) the title of the document or information; (2) the date of the document or information; (3) the name and title of the author of the document or information; (4) the name and title of each addressee and recipient; (5) a general description of the contents of the document or information; and (6) the privilege being asserted by Kimberly-Clark.
- 42. No claim of confidentiality shall be made with respect to any data, including but not limited to, all sampling, analytical monitoring, or laboratory or interpretive reports.
- 43. Kimberly-Clark shall preserve for the duration of these Orders and for a minimum of ten (10) years after its termination, all documents and other information within its possession or control, or within the possession or control of its contractors or agents, which in any way relate to the Work, notwithstanding any document retention policy to the contrary. Kimberly-Clark may preserve such documents by microfiche, or other electronic or photographic device. At the conclusion of this document retention period, Kimberly-Clark shall notify Ohio EPA at least sixty (60) days prior to the destruction of these documents or other information; and upon request, shall deliver such documents and other

information to Ohio EPA.

XIV. OTHER CLAIMS

44. Nothing in these Orders shall constitute or be construed as a release from any claim, cause of action, or demand in law or equity against any person, firm, partnership, or corporation, not subject to these Orders for any liability arising from, or related to, events or conditions at the Site.

XV. EFFECTIVE DATE AND SUBSEQUENT MODIFICATION

- 45. The effective date of these Orders shall be the date on which these Orders are entered in the Journal of the Director of Ohio EPA.
- 46. These Orders may be modified by Ohio EPA. Modifications shall be in writing and shall be effective on the date entered in the Journal of the Director of Ohio EPA.

XVI. TERMINATION

47. These Orders shall terminate upon Ohio EPA's approval in writing of Kimberly-Clark's written certification to Ohio EPA that all Work required to be performed under these Orders has been completed. The termination of these Orders shall not affect the terms and conditions of Section XII, Reservation of Rights, Section XIII, Access to Information, and Section XIV, Other Claims.

IT IS SO ORDERED:

Christopher Jones, Director

Ohio Environmental Protection Agency

3-12-01

Date

RECEIVED OHIO EPA

APR 22 1998

SOUTHWEST DISTRICT

APPLIED ENGINEERING & SCIENCE, INC.

SOIL SAMPLING RESULTS HOBART UST AND RAIL SPUR PROPERTY

Brown-Bridge Facility

Troy, Ohio

Kimberly-Clark Corporation

June 1994

SOIL SAMPLING RESULTS HOBART UST AND RAIL SPUR PROPERTY

BROWN-BRIDGE FACILITY TROY, OHIO

Prepared for:

KIMBERLY-CLARK CORPORATION

June, 1994



Prepared by:

Applied Engineering & Science, Inc.
Atlanta, Georgia

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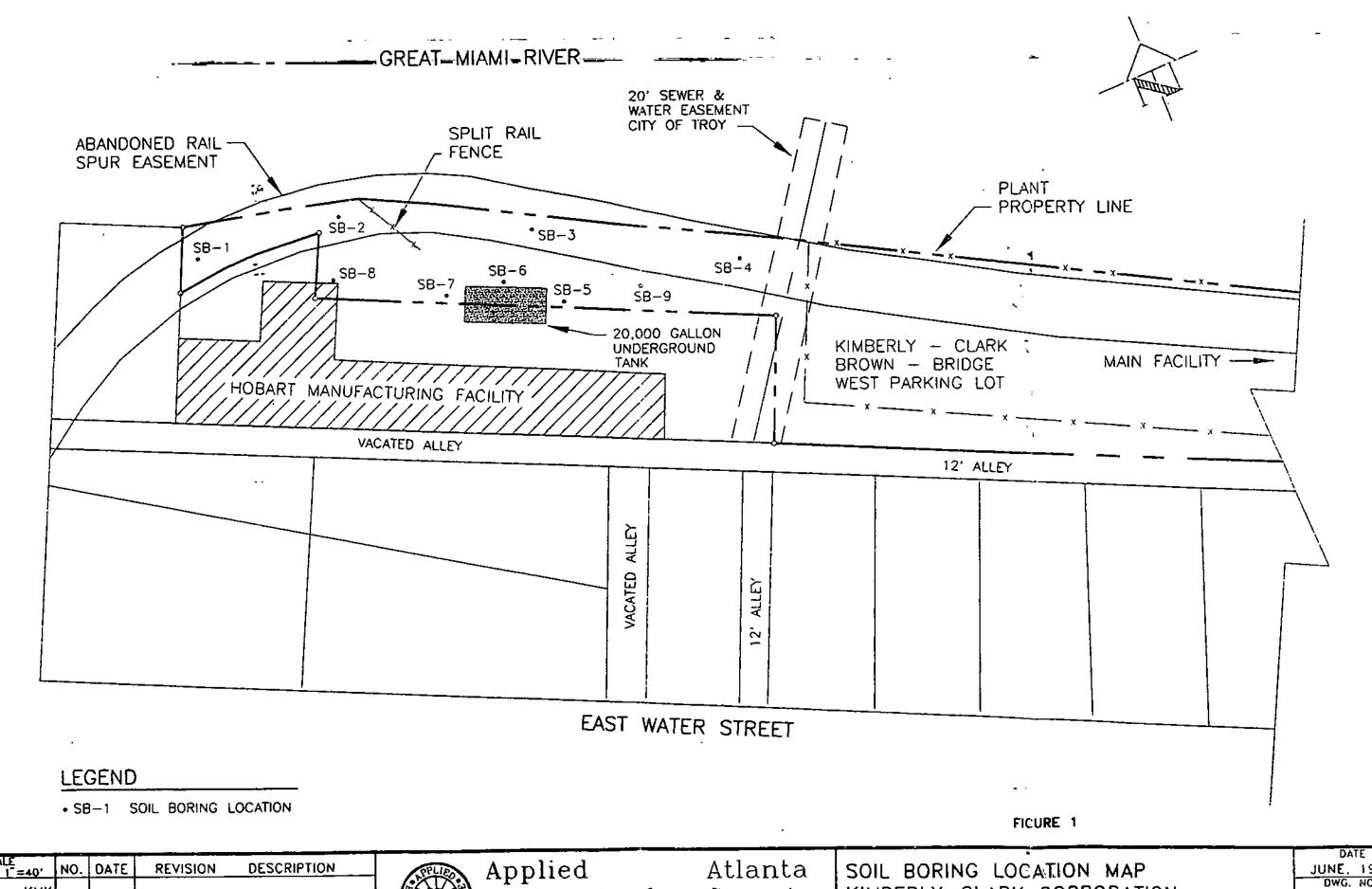
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I. INTRODUCTION

Kimberly-Clark Corporation has operated the Brown-Bridge facilities in Troy, Ohio since 1971. The facility manufactures pressure-, moisture-, and heat-sensitive adhesive stock for labels, stamps and related items. The Brown-Bridge operations consist of two separate plants located in Troy. The original facility (Plant 1) is located at 518 East Water Street, and is the location at which Brown-Bridge began operations in 1928. A second plant (Plant 2) is located at 30 Mary-Bill Drive, approximately 2 miles northwest of Plant 1 in an industrial park. Plant 2 began operating in 1978 and expanded in 1985.

During a record search of property deeds for Plant 1 on East Water St., it was discovered that an additional "sliver" property located on the west end of the west parking lot was also owned by Brown-Bridge and the Baltimore and Ohio Railroad (Figure 1). The railroad and "sliver" property, approximately 30 feet wide and 260 feet long, had previously been a rail spur which branched from the main Baltimore and Ohio rail line to service the Brown-Bridge facility and neighboring operation owned by Hobart.

The railroad and "sliver" property is bound to the north by the Miami Conservancy which maintains the levee along the Great Miami River. To the south, the land is bound by three residential lots and the Hobart Company (Hobart). Hobart manufactures steel panel filing and storage cabinets. As part of the Hobart operations, paint booths located in the



3326A003.DWC

SCALE
APPROX, 1 = 40' NO. DATE REVISION DESCRIPTION

DWN. BY KMK

CHK'D. BY GEW

APPR. BY GEW



Engineering & Science

Atlanta Georgia

SOIL BORING LOCATION MAP KIMBERLY-CLARK CORPORATION BROWN-BRIDGE FLANT 1, TROY OHIO JUNE, 1994 DWG, NO. 3326A SHEET NO. back of the building are used to spray paint the steel cabinets. Ventilation ports from the paint booths are located on the back side of the building and direct exhaust fumes toward the river and the narrow strip owned by the Brown-Bridge operations. In addition, Hobart maintains a 20,000 gallon underground storage tank (UST) behind their facility which is reportedly used to store heating oil. The UST is centered lengthwise on the property line which divides the Hobart property and the narrow strip of land owned by Brown-Bridge.

Applied Engineering and Science (AES) was contracted by Kimberly-Clark to collect soil samples from the former rail spur and around the Hobart UST. The purpose of the sampling was to determine if the UST or past operations of the rail spur have impacted soil quality. This report describes the sampling and results.

Soil samples were collected May 24th and 25th, 1994, on the Brown-Bridge and railroad property to determine if past or current activities have impacted soil quality. A total of nine (9) soil samples were collected along an abandoned rail spur, and immediately adjacent to a 20,000 gallon UST which is centered on the Hobart and Brown-Bridge property line. Soil samples were collected utilizing stainless-steel manual augers in six (6) locations (SB-1, 2, 3, 4, 8, and 9), but due to buried construction rubble around the UST, a rubber tire backhoe was used to collect samples in three locations adjacent to the storage tank (SB-5, 6, and 7, Figure 1).

Stainless steel auger buckets used to collect soils for laboratory analyses were decontaminated prior to collecting samples, and between sample location using liquinox detergent and water to remove soil accumulated on the auger buckets. The auger buckets were then rinsed with isopropyl alcohol and allowed to air dry, then double rinsed with deionized water to prevent potential cross contamination by sampling equipment.

Soils collected for laboratory analyses were placed in clean glass sample containers provided by EcoSys Laboratory Services, Inc. (EcoSys), and appropriately labeled in the field for identification. Soils collected were placed on ice in a plastic cooler to preserve the integrity of the samples for laboratory analyses. Samples were shipped May 25, 1994,

Four soil samples were collected along the old rail spur (SB-1, 2, 3, and 4). Samples were collected by advancing a stainless steel manual auger bucket to a depth of 2.5 to 3 feet below grade where a clay base was encountered. Samples were collected at the interface of the clay and black sandy material used as ballast in the rail bed.

Two additional locations were sampled utilizing the hand augers (SB-8 and 9). Soils were collected at the corner of the Hobart building (SB-8) which is apparently on the Brown-Bridge property. This corner of the Hobart building appeared to be a location where building rubble and trash have been dumped to fill a depression in the surface soils along the edge of the building foundation. Access to this location is unrestricted and local fisherman were observed parking behind the Hobart facility to fish at a spillway in the Great Miami River. As a result, trash and other debris are left on the ground in this area by people using this area to access the river for recreational purposes. Therefore, it may not be possible to accurately determine the origin of the trash, or what may have been discarded at this location in the past. An auger bucket was advanced to a depth of 2 feet below grade in the SB-8 location near the corner of the Hobart building where the trash and debris has accumulated.

Soil boring 9 (SB-9) was collected at a depth of 3 feet below grade at the edge of the tree

line approximately half the distance between the eastern end of the UST and the west parking lot of Brown-Bridge.

Several unsuccessful attempts were made to advance a manual auger in three locations adjacent to the UST. As previously mentioned, the UST has been placed in a location where a brick building was demolished in place. Samples collected adjacent to the UST (SB-5, 6, and 7) were collected utilizing a rubber tire backhoe to dig to depth of ten feet below grade. Ten feet below grade is approximately the depth of the base of the 20,000 gallon fuel oil tank.

The excavation of soils adjacent to the tank indicated the building which had stood at this location may have had a basement because brick and large chunks of concrete slab were encountered the entire depth of the excavation. Samples were collected by transferring soils which had not come in contact with the backhoe bucket into the sample containers provided by the EcoSys. The excavations were back-filled with the excavated material and restored to the original grade.

III. SUMMARY OF LABORATORY ANALYSES

Laboratory analyses of soils collected at the Brown-Bridge plant in May of 1994 included total petroleum hydrocarbons (TPHs) using EPA method 8015, volatile organic compounds (VOCs) using EPA method 8260, and semi-volatile organic compounds (SVOCs) using EPA method 8270. Table 1 summarizes laboratory analytical results for soil samples collected immediately adjacent to the 20,000 gallon UST, along the center line of the abandoned rail spur, and two additional locations along the narrow strip of property located behind the Hobart facility. Analytical reports from EcoSys Laboratory Services, Inc. are presented in Appendix A.

For comparative analysis, the concentrations of constituents detected in the soils were compared to federal corrective action levels (CALs) proposed in the Federal Register on July, 27, 1990 by the U. S. Environmental Protection Agency (USEPA) under the Resource Conservation and Recovery Act (RCRA). In the column on the far right of Table 1, federal CALs are listed for comparison of constituents detected in soils analyses. Comparison of the concentration levels of the constituents detected are not intended to imply the applicability of any state or federal regulations to this site. Some of the constituents detected in the soils do not have CALs.

Laboratory analyses of soils collected confirmed the presence of VOCs and SVOCs in low

TABLE 1 KIMBERLY-CLARK CORPORATION BROWN-BRIDGE MAIN PLANT TROY, OHIO AES/May 24-25, 1994

Sail Borings ID	SB1-3'	\$B2-3°	\$B3-2.3'	SB4-2.5°	SB5-10'	SB6-10'	SB7-10'	SB8-2*	SB9-3'	CAL
VOC'S (EPA-8260)	,									î resetu
Benzene	ND	ND	ND	11	ND	ND	ND	ND	ND	NRL NRL
CIS-1,2-Dichloroethene	ND	ND	ND	26	ND	ND	ND	מא	ND	NRL .
Methylene Chloride	16	14	ND	15	ND	ND	ND	ND	ND	90,000' '
Napthalene	ND	ND	ND	81	ND	ND	ND	ND	ND	NRL F
Trichloroethene	ND	מא	640	12,000	ND	9.0	58	500	ND	60,0001
1,2,3 Trichlorobenzene	8	6.3	ND	7	ND	ND	ND	ND	ND	NRL
1,2,4, Trichtorobenzene	6	ND	ND	5	ND	ND	ND	ND	ND	2,000,000' 1
1,1,2, Trichloroethane	ND	ND	ND	160	ND	ND	ND	ND	ND	1,000,000'
Tetrachloroethene	ND	ND	200	240	ND	6.0	24	470	ND	10,000' [
Toluene	8	ND	ND	20	ND	ND	ИD	31	ND	20,000,0001
Xylene	ND	ND	ND	13	ND	ND	ND	מא	ND	200,000,0001

All concentrations reported in µg/kg (ppb)

ND - Not detected

NRL - No regulatory level exists

⁻ Proposed July 27, 1990, Federal Corrective Action Level

TABLE 1 (CONTINUED) KIMBERLY-CLARK CORPORATION BROWN-BRIDGE MAIN PLANT TROY, OHIO

AES/May 24-25, 1994

Soil Borings ID	SB1-3'	SB2-3*	SB3-2.3'	SB4-2.5'	SB5-10'	SB6-10°	SB7-10'	SB8-2'	SB9-3'	CAL
SVOC's (EPA-8270)								· · · · · · · · · · · · · · · · · · ·		<u> </u>
Anthracene	ND	ND	ND	2450	ND	ND	ND	ND	ND	NRL
Acenaphthylene	ND	ND	ND	1300	ND	ND	DИ	ND	ND	NRL 4
Benzo (A) Anthracene	5300	ND	ND	16,100	ND	ND	ND	1200	ND	NRL I
Benzo (G,H,I) Perylene	7000	ND	ND	8,500	ND	ND	ND	1370	ND	NRL I
Benzo (A) Pyrene	6710	ND	ИD	13,500	ND	ND	ND	1020	ND	NRL
Benzo (B) Fluoranthene	8030	ND	ND	16,500	ND	ND	ND	ND	ND	NRL
Benzo (K) Fluoranthene	4460	ND	ND	9,260	ND	ND	ND	1040	ND	NRL .
Chrysene	6200	ND	ND	11,900	ND	ND	ND	1160	ND	NRL.
Dibenzo (A,H) Anthlacene	2340	ND	ND	5,450	dN	ND	מא	1130	ND	NRI,
Fluoranthene	5100	ND	ND	16,200	ND	ND	ND	1690	ND	NRL (
Ideno (1,2,3-CD) Pyrene	6740	ND	ND	11,800	ND	ND	ND	ND	ND	NRL
Phenanthrene	1050	ND	ND	6,530	ND	ND	ND	1670	ND	NRL
Pyrene	6950	ND	ND	23,200	ND	ND	ND	1830	ND	NRL]

All concentrations reported in µg/kg (ppb)

ND - Not detected

NRL - No regulatory level exists

^{1 -} Proposed July 27, 1990, Federal Corrective Action Level

TABLE 1 (CONTINUED) KIMBERLY-CLARK CORPORATION **BROWN-BRIDGE MAIN PLANT** TROY, OHIO

AES/May 24-25, 1994

Soil Borings ID	SB1-J.	SB2-3'	\$B3-2.3'	SB4-2.5'	SB5-10'	SB6-10'	SB7-10'	SB8-2'	SB9-3*	CAL
TPH (8015)				-					, ,	
Gasoline	ND	ND	ND	ND	ND	ND	ND	ND	ДИ	NRL
Kerosene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NRL
Diesel	ND	ND	ND	ND	ND	ND	ND	ND	ND	NRL .

All concentrations reported in µg/kg (ppb)

ND - Not detected

NRL - No regulatory level exists

⁻ Proposed July 27, 1990, Federal Corrective Action Level

from borings SB-2 and SB-3 were relatively clean with the exceptions of low concentrations of VOCs present. Soils collected from borings SB-1 and SB-4 contain a wide variety of VOCs and SVOCs present in the shallow soils, however, constituents detected are in relatively low concentrations in comparison to the proposed CALs.

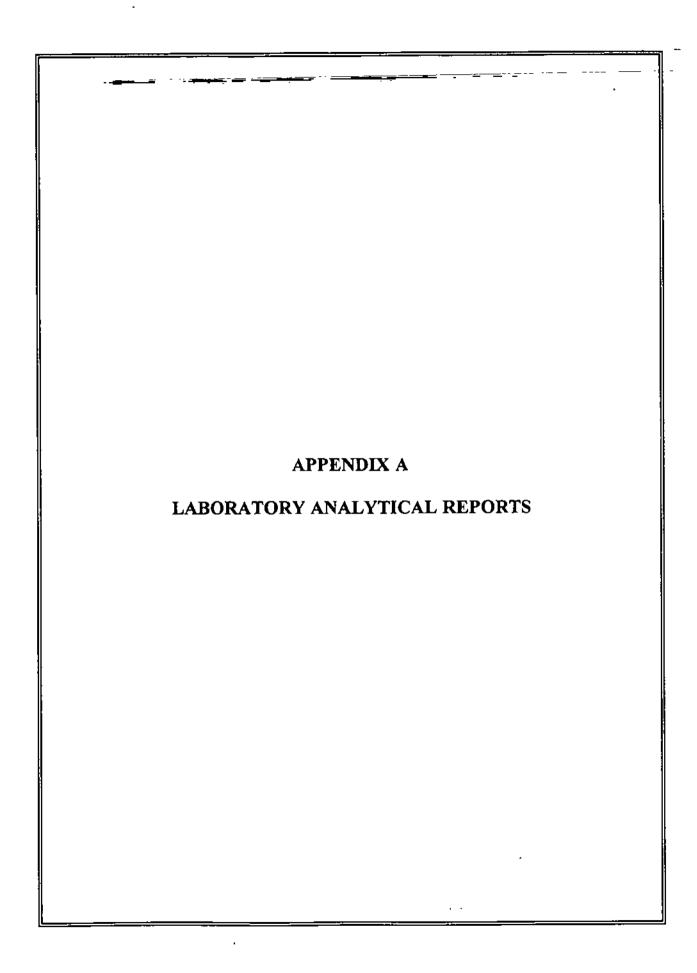
Shallow soils collected from the corner of the Hobart facility (SB-8) contained a variety of VOCs and SVOCs in low concentrations. Soils collected from SB-9 had no detectable concentrations of VOCs, SVOCs or petroleum hydrocarbons.

Soils collected at a depth of 10 feet adjacent to the UST (SB-5, 6 and 7) were intended to detect potential releases from the storage tank. Laboratory analyses of soils collected did not indicate the presence of gasoline, diesel, or kerosene constituents. Laboratory analyses of soils collected from SB-5 did not detect VOCs or SVOCs at a depth of 10 feet below the surface. Soils collected from SB-6 and SB-7 indicated the presence of very low concentrations of trichloroethene and tetrachloroethene.

The following conclusions are based on laboratory analyses of soil samples collected from the area surrounding the Hobart UST and along the former Baltimore & Ohio rail spur to Brown-Bridge Plant 1:

- 1. Based on visual inspection and analytical results from three soil samples, there is no indication the fuel oil UST on the Hobart/Kimberly-Clark property line has leaked.
- 2. Four soil samples collected along the former rail spur indicate contamination of soils with low levels of volatile and semivolatile hydrocarbons. The heavier (semivolatile) hydrocarbons are typical of rail operations and could originate from treated rail ties, locomotives leaking diesel fuel and/or lubricants, or coal which was observed by the sampling crew in the rail ballast.
- 3. One soil sample (SB-8) collected at the corner of the Hobart building also contained low concentrations of volatile and semivolatile hydrocarbons. The source of these compounds at this location was not readily apparent, but could be trash and debris in the area either from Hobart operations or use

- 4. Several soil samples, including some from borings near the UST, along the rail spur and at the corner of the Hobart building contained concentrations of VOCs which are not indicative of either fuel oil storage or rail operations. These VOCs (trichloroethene, tetrachloroethane, methylene chloride and others) are common industrial solvents.
- 5. The concentrations and distribution of VOCs found on the property are not indicative of a major release or spill. It is more likely that these low concentrations resulted from small releases over a period of time. Given the proximity of Hobart and because the Hobart property is upgradient and upslope of the Brown-Bridge property, it is probable that the VOC soil contamination originates from the long-term daily operations of Hobart.



EcoSys

ANALYTICAL REPORT

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Norcross, Georgia 30093

Phone 404.368.0636 Fax 404.368.0806

Applied Engineering

Dave Butler

2261 Perimeter Park Drive

Suit 1, Atlanta, GA 30341

F: 454-1816

Client Code

20111539

Ledger Number

103049

P.O. Number

Date Received Time Received 05/26/94 10:45

Date Reported

06/02/94

Sample ID AA07347

Date Analyzed

05/27/94

Date Sampled

05/24/94

Time Sampled

15:15

Sample Description 3326B, SB3-2.3'

Test Code	Method	Analyte	CAS No.	MDL	Result	Unit
		*****SEMI VOLATILES (SOIL)****	k w		****	* ug/Kg
\$06018	8270	N-NITROSODIMETHYLAMINE	62-75-9	1000	Below MD	L ug/Kg
\$06018	8270		62-53-3	1000	Below MD	L ug/Kg
\$06018	8270	ANILINE	108-95-2	1000	Below MD	L ug/Rg
\$06018	B270	PHENOL	111-44-1	1000	Below MD	L ug/Kg
\$06018	8270	BIS(2-CHLOROETHYL) ETHER	95-57-8	1000	Below MD	Lug/Kg
\$06018	8270	2-CHLOROPHENOL	541-73-1	1000	Below MD	L ug/Kg
\$06018	8270	1,3-DICHLOROBENZENE	106-46-7	1000	Below MD	L ug/Kg
\$06018	8270	1,4-DICHLOROBENZENE	100-51-6	1000	Below MD	L ug/Kg
\$06018	8270	BENZYL ALCOHOL	95-50-1	1000	Below MD	
\$06018	8270	1,2-DICHLOROBENZENE	108-60-1	1000	Below MI	L ug/Kg
\$06018	8270	BIS(2-CHLOROISOPROPYL)ETHER	95-48-7	1000	Below MI	•
\$0601B	8270	2-METHAT DHENOT	106-44-5	1000	Below MI	
\$06018	8270	4-METHYLPHENOL	621-64-7	1000	Below MI	
\$06018	8270	N-NITROSO-DI-N-PROPYLAMINE	67-72-1	1000	Below M	
\$06018	8270	HEXACHLOROETHANE	98-95-3	1000	Below MI	
\$06018	8270	NITROBENZENE	78-59-1	1000	Below MI	
\$06018	8270	ISOPHORONE	88-75-5	2000	Below M	
\$06018	8270	2-NITROPHENOL	105-67-9	1000	Below M	
\$06018	8270	2,4-DIMETHYLPHENOL		1000	Below M	_
\$06018	8270	BIS(-2-CHLOROETHOXY)METHANE	111-91-1	1000	Below M	
\$06018	8270	2,4-DICHLOROPHENOL	120-83-2	1000	Below M	
\$06018	8270	1,2,4-TRICHLOROBENZENE	120-82-1	5000		DL ug/Kg
\$05018	8270	BENZOIC ACID	65-85-0	1000		DL ug/Kg
\$06018	8270	NAPHTHALENE	91-20-3	1000		DL ug/Kg
\$06018	8270	4-CHLOROANILINE	106-47-8	1000		DL ug/Kg
\$06018	8270	HEXACHLOROBUTADIENE	87-68-3	2000		DL ug/Kg
\$06018	8270	4-CHLORO-3-METHYLPHENOL	59-50-7			DL ug/Kg
\$0601B	8270	2-metrylnaphthalene	91-57-6	1000		
\$06018	8270	HEXACHLOROCYCLOPENTADIENE	77-47-4	1000		DL ug/Rg
\$06018	8270	2,4,6-TRICHLOROPHENOL	88-06-2	1000		DL ug/Kg
\$06018	8270	2.4.5-TRICHLOROPHENOL	95-95-4	1000		DL ug/Kg
\$06018	8270	2-CHLORONAPHTHALENE	91,-58-7	1000		DL ug/Kg
\$06018	8270	2-NITROANILINE	88-74-4	1000		DL ug/Kg
\$06018	8270	DIMETHYL PHTHALATE	131-11-3	1000		OL ug/Kg
\$06018	8270	ACENAPHTHYLENE	208-96-8	1000		IDL ug/Rg
\$06018	8270	2,6-DINITROTOLUENE	606-20-2	1000	Below M	IDL ug/Kg

Sample I	D AA0734		Date Analyzed	05/27/94	Date Sa	mpled	05/24/94
_	escription.	3326B, SB3-2.3'	-		Time Sa	mpled	15:15
28mbre r	ACRES (PARAMETER)	33268, 363-2.3					
Test Code	Method	Analyte	CA	S No.	MDL	Result	Unit
\$06018	8270 .	3-NITROANILINE		-09-2	1000	Below M	
\$06018	8270 ·	ACENAPHTHENE		-32-9	1000	Below M	
\$06018	8270	2,4-DINITROPHENOL		-28-5	5000	Below M	
\$06018	8270	4-NITROPHENOL		-02-7	5000	Below M	
\$06018	B270	DIBENZOFURAN		-64-9	1000	Below M	
\$06018	8270	2,4-DINITROTOLUENE		-14-2	1000	Below M	
\$06018	B270.	DIETHYLPHTHALATE		-66-2	1000		DL ug/Kg
306018	B270	4-CELOROPHENYL-PHENYL		-72-3	1000		DL ug/Kg
\$06018	8270	FLUORENE		-73-7	1000		DL ug/kg
\$06018	8270	4-NITROANILINE		-01-6	1000		DL ug/Kg
\$06018	8270	4,6-DINITRO-Z-METHYLPH		-52-1	5000		DL ug/Kg
\$06018	8270	N-NITROSODIPHENYLAMINE		-30-6	1000		DL ug/Kg
\$06018	8270	4-BROMOPHENYL-PHENYL E		-55-3	1000 1000		DL ug/Rg DL ug/Rg
\$06018	8270	HEXACHLOROBENZENE	1	1-74-1	5000		DL ug/Kg DL ug/Kg
\$06018	8270	PENTACHLOROPHENOL		-86~5	1000		DL ug/Kg
\$06018	8270	PHENANTHRENE		5-01-8 5-12-7	1000		DL ug/Kg
\$06018	8270	ANTHRACENE		1-74-2	1000		DL ug/kg
\$06018	8270,	DI-N-BUTYLPHTHALATE		-44-0	1000		DL ug/Kg
\$06018	8270	FLUORANTHENE	-	2-87-5	7999		DL ug/Kg
\$06018	8270.	BENEIDINE		9-00-0	1000		DL ug/kg
\$06018	8270	PYRENE		5-68-7	1000		DL ug/Kg
\$06018	8270	BUTYLBENZYLPHTHALATE	_	1-94-1	1000		DL ug/Kg
\$06018	8270	3,3'-DICHLOROBENZIDINE		5-55-3	1000		DL ug/Kg
\$06018	6270	BEN2O(A)ANTHRACENE BIS(2-ETHYLHEXYL)PHTHA		7-81-7	1000		DL ug/Kg
\$06018	8270	CHRYSENE .		3-01-9	1000		DL ug/Kg
\$06018	8270	DI-N-OCTYL PHTHALATE		7-84-0	1000		DL ug/Kg
\$06018	8270 8270	BENZO(B) FLUORANTHENE		5-99-2	1000		DL ug/Kg
\$06018 \$05018	8270	BENZO(K) FLUORANTHENE		7-08-9	1000		DL ug/Kg
\$06018	8270	BENZO(A) PYRENE		0-32-8	1000		DL ug/Kg
\$06018	8270	INDENO(1,2,3-CD)PYRENE		3395	1000	Below M	IDL ug/Kg
\$06018	8270	DIBENZO(A, H) ANTERACENE	_	3-70-3	1000	Below M	IDL ug/Kg
\$06018	B270.	BENZO(G,H,I)PERYLENE		1-24-2	1000	Below M	IDL ug/Kg
\$08009	8015	*****TPH 8015 MOD (SOI	L)****			*****	*** mg/Kg
\$08009	8015	GASOLINE	•		10	Below M	ODL mg/Kg
\$08009	8015	KEROSENE			10	Below M	NDL mg/Kg
\$08009	8015	DIESEL			10	Below N	MDL mg/Kg
\$08025	8260	***VOLATILES (GC/MS) (SOIL)***			*****	*** ug/Kg
\$08025	8260	DICHLORODIFLUOROMETHAN	ie	75-71-8	10.0		MDL ug/Kg
\$08025	8260.	CHLOROMETHANE		74-87-3	10.0		IDL ug/Kg
\$08025	8260:	VINYL CHLORIDE		75-01-4	10.0		tDL ug/Kg
\$08025	8260	BROMOMETHANE		74-83-9	10.0		IDL ug/Kg
\$08025	8260	CHLOROETHANE:		75-00-3	5.0		ADL ug/Kg
\$08025	8260	TRICHLOROFLUOROMETHANI		75-69-4	5.0		DL ug/Kg
\$08025	8260	1,1-DICHLOROETHENE		75-35-4	5.0		IDL ug/Kg
\$08025	8260	METHYLENE CHLORIDE		75-09-2	10.0		IDL ug/Kg
\$08025	8260	CARBON DISULFIDE		75-15-0	5.0		EDL ug/Kg
\$08025	8260	ACRYLONITRILE		07-13-1	5.0		MOL ug/Kg
\$08025	8260.	TRANS-1, 2-DICHLOROETH		56~60-5	5.0		MDL ug/Kg
\$08025	8260	1,1-DICHLOROETHANE		75-34-3	5.0		MDL ug/Kg
\$08025	8260 _.	2,2-DICHLOROPROPANE	5	94-20-7	5.0	Re TOM 1	MDL ng/Kg

Date Sampled 05/24/94 05/27/94 **Date Analyzed** Sample ID AA07347 Time Sampled 15:15 3326B, SB3-2.3' Sample Description Unit MDL Result CAS No. Test Code Method Analyte Below MDL ug/Kg 5.0 CIS-1,2-DICHLOROETHENE 156-59-2 **B260** \$08025 5.0 Below MDL ug/Kg 67-66-3 8260 CHLOROFORM \$08025 5.0 Below MDL ug/Rg 74-97-5 **BROMOCHLOROMETHANE** 8260 \$0B025 Below MDL ug/Kg 5.0 1,1,1-TRICHLOROETHANE 71-55-6 \$08025 **B260** Below MDL ug/Kg 5.0 563-58-6 1,1-DICHLOROPROPENE 8260 \$08025 5.0 Below MDL ug/Kg 56-23-5 CARBON TETRACHLORIDE 8260 \$08025 5.0 Below MDL ug/Kg 106-06-2 1,2-DICHLOROETHANE S08025 8260 -Below MDL ug/Kg 5.0 71-43-2 8260 . BENZENE 508025 640 ug/Kg 79-01-6 25.0 TRICHLOROETHENE 8260 \$08025 Below MDL ug/Kg 5.0 78-87-5 1,2-DICHLOROPROPANE 8260 \$08025 5.0 Below MDL ug/Kg 75-27-4 BROMODICHLOROMETHANE **B260** \$08025 Below MDL ug/Kg 5.0 74-95-3 DIBROMOMETHANE S08025 8260. Below MDL ug/Kg 10.0 106-10-1 4-METHYL-2-PENTANONE 8260 . s08025 Below MDL ug/Kg 10.0 591-78-6 2-HEXANONE 8260 \$08025 5.0 Below MDL ug/Kg 10061-01-5 CIS-1,3-DICHLOROPROPENE **B260** \$08025 Below MDL ug/Kg 5.0 108-88-3 TOLUENE \$08025 8260 Below MDL ug/Kg 5.0 10061-02-6 TRANS-1, 3-DICHLOROPROPENE 8260 S08025 5.0 Below MDL ug/Rg 79-00-5 1,1,2-TRICHLOROETHANE 8260 \$08025 5.0 Below MDL ug/Kg 142-28-9 1,3-DICHLOROPROPANE 8260 \$08025 5.0 200 ug/Kg 127-18-4 TETRACHLOROETEENE \$08025 8260 Below MDL ug/Kg 5.0 124-48-1 CHLORODIBROMOMETHANE 8260 : \$08025 5.0 Below MDL ug/Kg 106-93-4 1,2-DIBROMOETHANE S08025 8260 5.0 Below MDL ug/Kg 108-90-7 CHLOROBENZENE 8260 \$08025 Below MDL ug/Kg 5.0 100-41-4 **ETHYLBENZENE** \$08025 8260 Below MDL ug/Kg 5.0 1,1,1,2-TETRACHLOROETHANE 630-20-6 8260 \$08025 5.0 Below MDL ug/Kg 1330-20-7 8260 XYLENE (TOTAL) \$08025 Below MDL ug/Kg 5.0 100-42-5 STYRENE 8260 \$08025 5.0 Below MDL ug/Rg 98-82-8 **ISOPROPYLBENZENE** 8260 \$08025 Below MDL ug/Kg 5.0 75-25-2 S08025 8260 BROMOFORM 5.0 Below MDL ug/Kg 79-34-5 1,1,2,2-TETRACHLOROETHANE 8260 \$08025 5.0 Below MDL ug/Kg 96-18-4 1,2,3-TRICHLOROPROPANE \$08025 8260 5.0 Below MDL ug/Kg 103-65-1 N-PROPYLBENZENE **B260** S08025 Below MDL ug/Kg 5.0 108-86-1 BROMOBENZENE \$08025 8260 5.0 Below MDL ug/Kg 1,3,5-TRIMETHYLBENZENE 108-67-8 8260 \$08025 5.0 Below MDL ug/Kg 95-49-8 2-CHLOROTOLUENE 8260 \$08025 5.0 Below MDL ug/Kg 106-43-4 4-CHLOROTOLUENE 8260 \$08025 5.0 Below MDL uq/Kq 98~06-6 TERT-BUTYLBENGENE 8260 \$08025 Below MDL ug/Kg 5.0 95-63-6 1,2,4-TRIMETHYLBENZENE \$08025 8260 135-98-8 5.0 Below MDL ug/Kg SEC-BUTYLBENZENE \$08025 8260 5.0 Below MDL ug/Kg 99-87-6 P-ISOPROPYLTOLUENE 8260 \$08025 5.0 Below MDL ug/Kg 1,3-DICHLOROBENZENE 541-73-1 8260 S08025 Below MDL ug/Kg 5.0 106-46-7 1,4-DICHLOROBENZENE 8260 \$08025 5.0 Below MDL ug/Kg 104-51-8 N-BUTYLBENZENE \$08025 8260 5.0 Below MDL ug/Kg 95-50-1 1,2-DICHLOROBENZENE \$08025 8260 5.0 Below MDL ug/Kg 1,2-DIBROMO-3-CHLOROPROPANE 96-12-B \$08025 8260 5.0 Below MDL ug/Kg 102-82-1 1,2,4-TRICHLOROBENZENE 8260 \$08025 5.0 Below MDL ug/Kg B7-68-3 **HEXACHLOROBUTADIENE** \$08025 B260 · 5.0 Below MDL ug/Kg 91~20~3 NAPHTHALENE 82601 \$08025 Below MDL ug/Kg 5.0 87-61-6 1,2,3-TRICHLOROBENZENE 8260: \$08025

Sample ID AA07348
Sample Description 3326B, SB1-3.0'

Date Analyzed

06/01/94

Date Sampled Time Sampled 05/24/94 10:30

Test Code	Method _	Analyte	CAS No.	MDL	Result Unit
\$06018	8270	*****SEMI VOLATILES (SOIL)***	••		******* ug/Kg
\$06018	8270	N-NITROSODIMETHYLAMINE	62-75-9	1000	Below MDL ug/Kg
\$06018	8270	ANILINE	62-53-3	1000	Below MDL ug/Kg
\$06018	8270	PHENOL	108-95-2	1000	Below MDL ug/Kg
\$06018	8270	BIS(2-CHLOROETHYL) ETHER	111-44-1	1000	Below MDL ug/Kg
\$06018	8270	2-CHLOROPHENOL	95-57-8	1000	Below MDL ug/Kg
\$06018	8270	1,3-DICKLOROBENZENE	541-73-1	1000	Below MDL ug/Kg
\$06018	8270	1,4-DICHLOROBENZENE	106-46-7	1000	Below MDL ug/Kg
\$06018	8270	RENZYL ALCOHOL	100-51-6	1000	Below MDL ug/Kg
\$06018	8270	1.2-DICHLOROBENZENE	95-50-1	1000	Below MDL ug/Kg
\$06018	8270	BIS(2-CHLOROISOPROPYL)ETHER	108-60-1	1000	Below MDL ug/Kg
\$06018	8270	2-METHYLPHENOL	95-48-7	1000	Below MDL ug/Kg
\$06018	8270	4-METHYLPHENOL	106-44-5	1000	Below MDL ug/Rg
\$06018	8270	B-NITROSO-DI-N-PROPYLAMINE	621-64-7	1000	Below MDL ug/Kg
\$06018	8270	HEXACHLOROETHANE	67-72-1	1000	Below MDL ug/Rg
\$06018	8270	NITROBENZENE	98~95-3	1000	Below MDL ug/Kg
\$05018	8270	ISOPHORONE	78-59-1	1000	Below MDL ug/Rg
\$06018	8270	2-NITROPHENOL	88-75-5	2000	Below MDL ug/Rg
\$05018	8270	2,4-DIMETHYLPHENOL	105-67-9	1000	Below MDL ug/Kg
\$06018	8270	BIS(-2-CHLOROETHOXY)METRANE	111-91-1	1000	Below MDL ug/Kg
\$06018	8270	2,4-DICHLOROPHENOL	120-83-2	1000	Below MDL ug/Kg
\$06018	8270	1,2,4-TRICHLOROBENZENE	120-82-1	1000	Below MDL ug/Kg
\$06018	8270	BENZOIC ACID	65+85-0	5000	Below MDL ug/Kg
\$06018	8270	NAPETHALENE	91-20-3	1000	Below MDL ug/Kg
\$06018	8270	4-CHLOROANILINE	106-47-8	1000	Below MDL ug/Kg
\$06018	B270	HEXACHLOROBUTADIENE	87-68-3	1000	Below MDL ug/Kg
\$06018	8270	4-CHLORO-3-METHYLPHENOL	59-50-7	2000	Below MDL ug/Kg
\$06018	8270	2-METHYLNAPHTHALENE	91-57-6	1000	Below MDL ug/Kg
\$06018	8270	HEXACHLOROCYCLOPENTADIENE	77-47-4	1000	Below MDL ug/Kg
\$06018	8270	2,4,6-TRICHLOROPHENOL	88-06-2	1000	Below MDL ug/Kg
\$06018	8270	2,4,5-TRICHLOROPHENOL	95-95-4	1000	Below MDL ug/Kg
\$06018	8270	2-CHLORONAPHTHALENE	91-58-7	1000	Below MDL ug/Kg
\$06018	8270	2-NITROANILINE	88-74-4	1000	Below MDL ug/Kg
\$06018	8270	DIMETHYL PHTHALATE	131-11-3	1000	Below MDL ug/Kg
\$06018	8270	ACENAPHTHYLENE	208-96-8	1000	Below MDL ug/Kg
\$06018	8270	2,6-DINITROTOLUENE	606-20-2	1000	Below MDL ug/Rg
\$0601B	8270	3-NITROANILINE	99-09-2	1000	Below MDL ug/Kg
\$06018	8270	ACENAPHTHENE	83-32-9	1000	Below MDL ug/Kg
\$06018	8270	2,4-DINITROPHENOL	51-28-5	5000	Below MDL ug/Kg
\$06018	8270	4-NITROPHENOL	100-02-7	5000	Below MDL ug/Rg
\$06018	8270	DIBENZOFURAN	132-64-9	1000	Below MDL ug/Kg
\$05018	8270	2,4-DINITROTOLUENE	121-14-2	1000	Below MDL ug/Kg
\$06018	8270	DIETHYLPHTHALATE	84-66-2	1000	Below MDL ug/Kg
\$06018	8270	4-CHLOROPHENYL-PHENYL ETHER	7005-72-3	1000	Below MDL ug/Kg
\$06018	8270	FLUORENE	86-73-7	1000	Below MDL ug/Kg
\$06018	8270	4-NITROANILINE	100-01-6	1000	Below MDL ug/Kg
\$06018	8270	4,6-DINITRO-2-METHYLPHENOL	534-52-1	5000	Below MDL ug/Kg
\$06018	8270	N-NITROSODIPHENYLAMINE	86-30-6	1000	Below MDL ug/Kg
\$06018	8270	4-BROMOPHENYL-PHENYL ETHER	101-55-3	1000	Below MDL ug/Kg
\$06018	8270	HEXACHLOROBENZENE	118-74-1	1000	Below MDL ug/Kg
\$06018	8270	PENTACHLOROPHENOL	87-86-5	5000	Below MDL ug/Kg
\$06018	8270	PHENANTERENE	85-01-8	1000	1050 ug/Kg
\$06018	B270	ANTHRACENE	120-12-7	1000	Below MDL ug/Kg
\$06018	8270	DI-N-BUTYLPHTHALATE	84-74-2	1000	Below MDL ug/Kg

Sample ID 2A07348 Date Analysed 06/01/94 Date Sampled 05/24/94
Sample Description 3326B, SB1-3.0' Time Sampled 10:30

Sample L		3320B, BB1-3;0			•	
Test Code	Method	Analyte	CAS No.	MDL	Result	Unit
\$06018	8270	FLUORANTHENE	206-44-0	1000		ug/Rg
\$06018	8270	BENZIDINE	92- 87-5	7999	Below MDL	ug/Rg
\$06018	8270	PYRENE	129-00-0	1000		ug/Kg
\$06018	B270 .	BUTYLBENZYLPHTHALATE	85-68-7	1000	Below MDL	ug/Kg
\$06018	8270 ·	3,3'-DICHLOROBENZIDINE	91-94-1	1000	Below MDI	
\$06018	8270 .	BENSO(A)ANTHRACENE	56-55-3	1000		ug/Kg
\$06018	8270	BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	1000	Below MDI	-
\$06018	8270	CHRYSENE	218-01-9	1000		ug/Kg
\$06018	B270 :	DI-N-OCTYL PHTRALATE	117-84-0	1000	Below MDI	
\$06018	8270	BENSO(B) FLUORANTHENE	205-99-2	1000		ug/Kg
\$0601B	8270	Benzo (K) fluorantheme	207-08-9	1000		ug/Kg
\$06018	8270	BENZO(A)PYRENE	50-32 - 8	1000		ug/Kg
\$06018	8270	INDENO(1,2,3-CD)PYRENE	193-39-5	1000		ug/Kg
\$06018	8270 ·	DIBENZO(A, H)ANTHRACENE	53-70-3	1000		ug/Kg
\$06018	8270	BENZO(G,H,I)PERYLENE	191-24-2	1000		ug/Kg
\$08009	8015	*****TPH 8015 MOD (SOIL)*****			*******	
\$08009	8015	GASOLINE		10	Below MDI	, mg/Kg
\$08009	8015	KEROSENE		10	Below MDI	.mg/Kg
\$08009	8015	DIESEL		10	Below MDI	. mg/Kg
\$08025	8260	***VOLATILES (GC/MS) (SOIL)***			******	ug/Kg
\$08025	8260	DICHLORODIFLUOROMETHANE	75 - 71-8	10.0	Below MDI	. ug/Kg
\$08025	8260	CHLOROMETHANE	74-87-3	10.0	Below MDI	ug/Kg
\$08025	8260	VINYL CHLORIDE	75-01-4	10.0	Below MDI	ug/Kg
\$08025	8260	BROMOMETHANE	74-83-9	10.0	Below MDI	ug/Kg
\$08025	8260	CHLOROETHANE	75-00-3	5.0	Below MDI	ug/Kg
\$08025	8260	TRICHLOROFLUOROMETHANE	75-69-4	5.0	Below MDI	ug/Kg
\$08025	8260	1,1-DICHLOROETHENE	75-35-4	5.0	Below MDI	ug/Kg
\$08025	8260	METHYLENE CHLORIDE	75-09-2	10.0	16	ug/Kg
\$08025	8260	CARBON DISULFIDE	75-15-0	5.0	Below MDI	ug/Kg
\$08025	8260	ACRYLONITRILE .	107-13-1	5.0	Below MDI	. ug/Kg
\$08025	B260	TRANS-1,2-DICHLOROETHENE	156-60-5	5.0	Below MDI	. ug/Kg
\$08025	8260	1,1-DICHLOROETHANE	75-34-3	5.0	Below MDI	ug/Rg
\$08025	8260	2,2-DICHLOROPROPANE	594-20-7	5.0	Below MDI	ug/Kg
\$08025	8260	CIS-1,2-DICHLOROETHENE	156-59-2	5.0	Below MDI	. ug/Kg
\$08025	8260	CHLOROFORM	67-66-3	5.0	Below MDI	. ug/Kg
\$0B025	8260	BROMOCHLOROMETHANE	74-97-5	5.0	Below MDI	. ug/Rg
\$08025	8260	1,1,1-TRICHLOROETHANE	71-55-6	5.0	Below MDI	, ug/Kg
\$08025	8260	1,1-DICHLOROPROPENE	563-58-6	5.0	Below MDI	. ug/Kg
\$08025	8260	CARBON TETRACHLORIDE	56-23-5	5.0	Below MDI	. ug/Kg
\$08025	8260 :	1,2-DICHLOROETHANE	106-06-2	5.0	Below MDI	ug/Kg
\$08025	8260	BENZENE	71-43-2	5.0	Below MDI	ug/Kg
\$08025	8260	TRICHLOROETHENE	79-01-6	5.0	Below MDI	ug/Rg
\$0B025	8260	1,2-DICHLOROPROPANE	78-87-5	5.0	Below MDI	
\$08025	8260	BROMODICHLOROMETHANE	75-27-4	5.0	Below MDI	• •
\$08025	8260	DIBROMOMETHANE	74-95-3	5.0	Below MDI	ug/Kg
\$08025	8260	4-METHYL-2-PENTANONE	106-10-1	10.0	Below MDI	
\$08025	8260	2-HEXANONE	591-78-6	10.0	Below MDI	
\$08025	8260	CIS-1,3-DICHLOROPROPENE	10061-01-5	5.0	Below MDI	
\$08025	8260	TOLUENE	108-68-3	5.0		ug/Kg
\$08025	8260 .	TRANS-1,3-DICHLOROPROPENE	10061-02-6	5.0	Below MDI	
\$08025	8260	1,1,2-TRICHLOROETHANE	79-00-5	5.0	Below MDI	
\$08025	8260	1,3-DICHLOROPROPANE	142-28-9	5.0	Below MDI	
\$08025	8260 ;	TETRACHLOROETHENE	127-18-4	5.0	Below MDI	
\$08025	B260 :	CHLORODIBROMOMETRANE	124-48-1	5.0	Below MDI	. ug/Kg

Sample II) AA0734	L8	Date Analyzed	06/01/94	Date Sa	mpled	05/24/94
_	escription	3326B, SB1-3.0'			Time Sa	-	10:30
	•	-		-		-	
Test Code	Method	Analyte	<u>c</u>	AS No.	MDL	Result	Unit
\$08025	8260	1,2-DIBROMOETHANE		06-93-4	5.0		MDL ug/Kg
•	8260	CHLOROBENZENE		08-90-7	5.0		MDL ug/Kg
•	8260	ETHYLBENZENE		0-41-4	5.0		MDL ug/Kg
-	8260	1,1,1,2-TETRACELOROET		30-20-6	5.0		MDL ug/Kg
	8260	XYLENE (TOTAL)		0_20_7	5.0		MDL ug/Kg
•	8260	STYRENE		00-42-5	5.0		MDL ug/Kg
, –	8260	ISOPROPYLBENZENE		8-82-8 75-25-2	5.0 5.0		MDL ug/Kg MDL ug/Kg
	8260 8260	RROMOFORM 1,1,2,2-TETRACHLOROET		79-34-5	5.0		MDL ug/Kg
	8260 8260	1,2,3-TRICHLOROPROPANT		96-18-4	5.0		MDL ug/Kg
	8260 .	N-PROPYLBENZENE		3-65-1	5.0		MDL ug/Kg
•	8260	BROMOBENZENE		08-86-1	5.0		MDL ug/Rg
	8260	1,3,5-TRIMETHYLBENZEN		08-67-8	5.0		MDL ug/Kg
	B260 .	2-CELOROTOLUENE		95-49-8	5.0		MDL ug/Rg
•	8260	4-CHLOROTOLUENE	i	06-43-4	5.0		MDL ug/Kg
-	8260	TERT-BUTYLBENZENE		98-06-6	5.0	Below	MDL ug/Kg
\$08025	8260	1,2,4-TRIMETHYLBENZEM	E	95-63-6	5.0	Below	MDL ug/Kg
\$08025	8260	SEC-BUTYLBENEENE		35 -9 8-8	5.0	Below	MDL ug/Kg
\$08025	8260	P-ISOPROPYLTOLUENE	9	9-87-6	5.0	Below	MDL ug/Kg
\$08025	8260	1,3-dicklorobenzeme		41-73-1	5.0		MDL ug/Kg
	8260	1,4-dichlorobenzene		06-46-7	5.0		MDL ug/Kg
•	8260	n-butylbenzene		04-51-8	5.0		MDL ug/Kg
	8260	1,2-DICHLOROBENZENE		95-50-1	5.0		MDL ug/Kg
	8260	1,2-DIBROMO-3-CHLOROP		96-12-8	5.0		MDL ug/Kg
	8260	1,2,4-TRICHLOROBENZEN		02-82-1 87-68-3	5.0 5.0		6.0 ug/Kg
•	8260	HEXACHLOROBUTADIENE NAPHTHALENE		91-20-3	5.0		MDL ug/Kg
	8260 8260	1,2,3-TRICHLOROBENSEN		87-61-6	5.0		MDL ug/Kg 8.0 ug/Kg
\$08025	8260	1,2,3-IRICALOROBENDER	L	87-01-0	3.0		a.o ug/kg
Sample II	D AA073	49	Date Analyzed	06/01/94	Date Sa	moled	05/24/94
_		3326B, SB4-2.5'	Dau Amaiyad	00,01,74	Time S	•	15:00
omopic 2		33200, 054-2.3					15.00
Test Code	Method	Analyte	C	AS No.	MDL	Result	Unit
	8270	*****SEMI VOLATILES (·				*** ug/Xg
•	8270	N-NITROSODIMETHYLAMIN		2-75-9	1000		MDL ug/Kg
	8270	ANILINE		2-53-3	1000		MDL ug/Kg
	8270	PHENOL		8-95-2	1000		MDL ug/Kg
-	8270	BIS(2-CHLOROETHYL) ET		1-44-1	1000		MDL ug/Kg
	8270	2-CHLOROPHENOL		5-57-8	1000		MDL ug/Kg
	8270 8270	1,3-DICHLOROBENZENE		1-73-1	1000		MDL ug/Kg
	8270 8270	1,4-DICHLOROBENZENE BENZYL ALCOHOL		6-46-7 0-51-6	1000 1000		MDL ug/Rg
-	8270	1,2-DICHLOROBENZENE		5-50-1	1000		MDL ug/Kg MDL ug/Kg
	B270	BIS(2-CHLOROISOPROPYL		9-50-1 8-60-1	1000		MDL ug/Kg
	8270	2-METHYLPHENOL	•	5-48-7	1000		MDL ug/Kg
	8270	4-METHYLPHENOL		6-44-5	1000		MDL ug/Kg
	B270	N-NITROSO-DI-N-PROPYL		1-64-7	1000		MDL ug/Rg
	8270	HEXACHLOROETHANE		7-72-1	1000		MDL ug/Kg
\$06018	8270	nitrobenzene	9	8-95-3	1000		MDL ug/Kg
	B270	ISOPHORONE		8-59-1	1000		MDL ug/Kg
\$06018	8270	2-NITROPHENOL ·	8	8-75-5	2000	Below	MDL ug/kg
				. •			

Date Sampled Date Analysed 06/01/94 05/24/94 Sample ID AA07349 Time Sampled 15:00 Sample Description 3326B, SB4-2.5' MDL ___ Result ___ Unit _ Test Code Method . CAS No. ___ ___ Analyte 2.4-DIMETHYLPHENOL 105-67-9 1000 Below MDL ug/Kg S06018 8270 1000 BIS (-2-CHLOROETHOXY) METHANE 111-91-1 Below MDL ug/Kg \$06018 8270 1000 120-83-2 Below MDL ug/Kg 8270 2.4-DICHLOROPHENOL \$06018 1,2,4-TRICHLOROBENZENE 120-82-1 1000 Below MDL uq/Kq 8270 \$0601B 65-85-0 5000 Below MDL ug/Kg 8270 BENZOIC ACID S0601B 1000 Below MDL ug/Kg 91-20-3 **B270** NAPHTHALENE \$06018 1000 Below MDL ug/Kg \$06018 8270 4-CHLOROANILINE 106-47-8 87-68-3 1000 Below MDL ug/Kg 8270 **HEXACHLOROBUTADIENE** S0601B 59-50-7 2000 Below MDL ug/Kq 8270 4-CHLORO-3-METHYLPHENOL \$06018 91-57-6 1000 Below NDL ug/Kg 8270 2-METHYLNAPHTHALENE \$06018 1000 77-47-4 Below MDL ug/Kg 8270 **HEKACHLOROCYCLOPENTADIENE** \$06018 2,4,6-TRICHLOROPHENOL 88-06-2 1000 Below MDL ug/Kq 806018 8270 1000 2.4.5-TRICHLOROPHENOL 95-95-4 Below MDL ug/Kg 8270 S06018 Below MDL uq/Kq 91-58-7 1000 \$06018 8270 2-CHLORONAPHTHALENE BB-74-4 1000 Below MDL ug/Kg S06018 8270 2-NITROANILINE 8270 DIMETHYL PHTHALATE 131-11-3 1000 Below MDL ug/Rg \$06018 1000 208-96-8 1300 ug/Kg \$0601B 8270 **ACENAPHTHYLENE** 1000 2,6-DINITROTOLUENE 606-20-2 Below MDL ug/Kg \$06018 8270 99-09-2 1000 Below MDL ug/Kg \$06018 8270 3-NITROANILINE 1000 \$06018 8270 **ACENAPHTHENE** 83-32-9 Below MDL ug/Kg 8270 51-28-5 5000 Below MDL ug/Kg \$06018 2,4-DINITROPHENOL 100-02-7 5000 8270 4-NITROPHENOL Below MDL uq/Kg \$06018 1000 132-64-9 Below MDL ug/Kg S06018 8270 DIBENZOFURAN 2,4-DINITROTOLUENE \$0601B 8270 121-14-2 1000 Below MDL uq/Kq DIETHYLPHTHALATE 84-66-2 1000 Below MDL ug/Kg \$0601B 8270 4-CHLOROPHENYL-PHENYL ETHER 1000 8270 7005-72-3 Below MDL ug/Kg \$06018 1000 8270 PLUORENE 86-73-7 Below MDL ug/Kg \$06018 1000 \$06018 8270 4-NITROANILINE 100-01-6 Below MDL uq/Kq S06018 8270 4.6-DINITRO-2-METHYLPHENOL 534-52-1 5000 Below MDL ug/Kg 1000 N-NITROSODIPHENYLAMINE 86-30-6 Below MDL ug/Kg \$06018 8270 1000 **B270** 4-BROMOPHENYL-PHENYL ETHER 101-55-3 Below MDL ug/Kg \$06018 118-74-1 1000 S0601B 8270 **HEXACELOROBENZENE** Below MDL ug/Kg 8270 PENTACHLOROPHENOL 87-86-5 5000 Below MDL ug/Kg \$06018 PHENANTHRENE S06018 8270 85-01-8 1000 6530 ug/Kg 8270 120-12-7 1000 \$0601B ANTHRACENE 2450 ug/Kg 1000 \$06018 8270 DI-N-BUTYLPHTHALATE 84-74-2 Below MDL ug/Kg \$06018 8270 FLUORANTHENE 206-44-0 1000 16200 ug/Kg 8270 92-87-5 7999 \$06018 **BENZIDINE** Below MDL uq/Kg \$06018 8270 PYRENE 129-00-0 1000 23200 ug/Kg 8270 BUTYLBENZYLPHTRALATE 85-68-7 1000 \$06018 Below MDL ug/Kg 91-94-1 1000 \$06018 8270 3,3'-DICELOROBENZIDINE Below MDL ug/Kg \$06018 8270 56-55-3 1000 BENZO(A)ANTHRACENE 16100 ug/Kg 306018 8270 BIS(2-ETHYLHEXYL)PHTHALATE 117-81-7 1000 Below MDL ug/Kg \$06018 **B270** CHRYSENE 218-01-9 1000 11900 ug/Kg \$06018 8270 DI-N-OCTYL PHTHALATE 1000 117-84-0 Below MDL ug/Kg BEN20(B)FLUORANTHENE \$0601B 8270 205-99-2 1000 16500 ug/Kg \$06018 8270 BENZO(K)FLUORANTHENE 207-08-9 1000 9260 ug/Kg \$06018 8270 BENZO(A) PYRENE 50-32-8 1000 13500 ug/Kg \$06018 8270 INDENO(1,2,3-CD)PYRENE 193-39-5 1000 11800 ug/Kg \$06018 8270 DIBENZO(A, H) ANTHRACENE 53-70-3 1000 5450 ug/Kg 8270 \$06018 BENZO(G, H, I) PERYLENE 191-24-2 1000 8500 ug/Kg \$08009 8015 *****TPH B015 MOD (SOIL)***** ----******* mq/Kq \$08009 8015 10 GASOLINE Below MDL mg/Kg 8015 \$08009 10 REROSENE Below MDL mg/Kg

Sample I	D AX073	349	Date Analyzed	06/01/94	Date	Sampled	05/24/94
Sample 1	Description	3326B, SB4-2.5'				Sampled	15:00
Test Code	Method	Analyte	04	16 N-	. Mary		
\$08009	•	•	C	AS No. —	MDL	Result	Unit
\$08025	8015 8260	DIESEL			10	Below	MDL mg/Kg
\$08025	8260	***VOLATILES (GC/MS) (DICHLORODIFLUOROMETHAN	•				*** ug/Kg
\$08025	8260	CHLOROMETHANE	•	5-71-8 4-87-3	10.0		MDL ug/Kg
\$08025	8260 .	VINYL CHLORIDE		9~87~3 5 - 01~4	10.0		MDL ug/Kg
\$08025	8260	BROMOMETHANE		4-83-9	10.0 10.0		MDL ug/Kg
\$08025	8260	CHLOROETHANE		5-00-3	5.0		MDL ug/Kg
\$08025	8260	TRICELOROFLUOROMETHANE		5-69-4	5.0		MDL ug/Kg
\$08025	8260	1,1-DICHLOROETHENE		5-35-4	5.0		MDL ug/Kg MDL ug/Kg
\$08025	8260 ,	METHYLENE CHLORIDE		5-09-2	10.0	20101	15 ug/Kg
\$08025	8260	CARBON DISULFIDE	7	5~15-0	5.0	Below	MDL ug/Kg
\$08025	8260	ACRYLONITRILE		7-13-1	5.0		MDL ug/Kg
\$08025	8260	TRANS-1, 2-DICHLOROETHE		6-60-5	5.0		MDL ug/Kg
\$08025	8260	1,1-DICHLOROETHANE	•	5-34-3	5.0	Below	MDL ug/Kg
\$08025 \$08025	8260 8260	2,2-DICHLOROPROPANE		4-20-7	5.0		MDL ug/kg
\$08025	8260	CIS-1,2-DICKLOROETHENE CHLOROFORM		6-59-2	5.0		26 ug/Rg
	8260	BROMOCHLOROMETHANE		7-66-3	5.0		MDL ug/Kg
	8260	1,1,1-TRICHLOROETHANE		4~97-5	5.0		MDL ug/Kg
	8260	1,1-DICHLOROPROPENE		1-55-6 3-58-6	5.0		MDL ug/Kg
	8260	CARBON TETRACHLORIDE		3-38-6 6-23-5	5.0 5.0		MDL ug/Kg
\$08025	8260	1,2-DICHLOROETHANE		6-06-2	5.0		MDL ug/Kg
	8260 .	BENZENE		1-43-2	5.0	ReTOM ;	MOL ug/Kg
	8260	TRICHLOROETHENE		9-01-6	250.0	12	11 ug/Kg
	8260	1,2~DICHLOROPROPANE		8-87-5	5.0		000 ug/Rg MDL ug/Rg
	8260	BROMODICHLOROMETHANE		5-27-4	5.0		MDL ug/Kg
	8260	DIBROMOMETHANE	74	1-95-3	5.0		MDL ug/Rg
	8260	4-METHYL-2-PENTANONE	106	5-10-1	10.0		DL ug/Kg
	8260	2-BEXANONE		1-78-6	10.0		1DL ug/Kg
	8260	CIS-1,3-DICHLOROPROPENI		1-01-5	5.0		DL ug/Kg
	8260 8260	TOLUENE		3-88-3	5.0		20 ug/Kg
	8260	TRANS-1, 3-DICHLOROPROPI	*	-02-6	5.0	Below N	DL ug/Kg
	8260	1,1,2-TRICHLOROETHANE 1,3-DICHLOROPROPANE		-00-5	5.0		160 ug/Kg
	B260	TETRACHLOROETHENE		2-28-9	5.0	Below N	DL ug/Kg
		CHLORODIBROMOMETHANE		7-18-4 3-48-1	5.0		240 ug/Rg
	8260	1,2-DIBROMOETHANE		-48-1 -93-4	5.0		DL ug/Kg
		CHLOROBENZENE		-93-4 -90-7	5.0 5.0		DL ug/Kg
\$08025		ETHYLBENZENE		41-4	5.0		DL ug/Kg
	8260	1,1,1,2-TETRACHLOROETH		-20-6	5.0		DL ug/Kg
		XYLENE (TOTAL)	1330-		5.0	PGTOM N	DL ug/Kg
		STYRENE		-42-5	5.0	Bolow M	13 ug/Kg DL ug/Kg
		ISOPROPYLBENZENE		82-8	5.0		DL ug/Kg
		BROMOFORM	75	-25-2	5.0		DL ug/Kg
		1,1,2,2-TETRACHLOROETHA	NE 79	-34-5	5.0		DL ug/Rg
		1,2,3-TRICHLOROPROPANE		-18-4	5.0		DL ug/Kg
		N-PROPYLBENZENE		65~1	5.0		DL ug/Kg
		Bromobenzene 1,3,5-trimetrylbenzene		-86-1	5.0	Below M	DL ug/Kg
_		2-CHLOROTOLUENE		-67-8	5.0	Below M	DL ug/kg
		4-CHLOROTOLUENE		-49-8	5.0		DL ug/Kg
		TERT-BUTYLBENZENE		-43-4 -06-6	5.0		DL ug/Kg
	•	1,2,4-TRIMETHYLBENZENE		-06-6 -63-6	5.0		DL ug/Kg
		SEC-BUTYLBENZENE		-98-8 -03-6	5.0 5.0		DL ug/Kg
			200	, <u></u>	3.0	Retom M	DL ug/Kg

Sample I	D AA073	C9 Date Am	dyzed 06/0 1	-•	Sampled 05/24/94
Sample I	escription	3326B, SB4-2.5'		Time	: Sampled 15:00
Test Code	Method	Analyte	, CAS No.,	MDL	Result Unit
\$08025	8260	P-ISOPROPYLTOLUENE	99-87-6	5.0	Below MDL ug/K
\$08025	8260	1,3-DICHLOROBENZENE	541-73-	1 5.0	Below MDL ug/K
\$08025	8260	1,4-DICHLOROBENZENE	106-46-	7 5.0	Below MDL ug/K
\$08025	8260	N-BUTYLBENZENE	104-51-	8 5.0	Below MDL ug/K
\$08025	8260	1,2-DICHLOROBENZENE	95~50-	1 5.0	Below MDL ug/R
\$08025	8260	1,2-DIBROMO-3-CHLOROPROPAME	96-12-	8 5.0	Below MDL ug/K
\$08025	8260	1,2,4-TRICHLOROBENZENE	102-82-	1 5.0	5.0 ug/K
\$08025	8260	HEXACHLOROBUTADIENE	87-68-		Below MDL ug/K
\$08025	8260	NAPHTHALENE	91-20-		81 ug/R
\$08025	8260	1,2,3-TRICHLOROBENZENE	87-61-	6 5.0	7.0 ug/K
Carrola I	D AA073	EA	ulyzed 05/2	704 Pote	: Sampled 05/25/94
_			. U3/2	•	
Sample I	escription	3326B, SB2-3.0°			e Sampled 15:30
Test Code	Method	Analyte	CAS No.	MDL	Result Unit
\$06018	8270	*****SEMI VOLATILES (SOIL)**			******* ug/K
\$06018	8270	N-NITROSODIMETHYLAMINE	62-75-9		Below MDL ug/K
\$06018	8270	ANILINE	62-53-3		Below MDL ug/K
\$06018	8270	PHENOL	108-95-2		Below MDL ug/K
\$06018	8270	BIS(2-CHLOROETHYL) ETHER	111-44-1		Below MDL ug/K
\$06018	8270	2-CHLOROPHENOL	95-57-8		Below MDL ug/K
\$06018	8270	1,3-dichlorobenzene	541-73-1		Below MDL ug/K
\$06018	8270	1,4-DICHLOROBENZENE	106-46-7		Below MDL ug/K
\$06018	8270	BENZYL ALCOHOL	100-51-6		Below MDL ug/K
\$06018	8270	1,2-DICHLOROBENZENE	95-50-1		Below MDL ug/K
\$06018	8270	BIS(2-CHLOROISOPROPYL)ETHER	108~60-1		Below MDL ug/K
\$0601B	8270	2-METHYLPHENOL	95-48-7		Below MDL ug/K
\$06018	8270	4-METHYLPHENOL	106-44-5		Below MDL ug/K
\$06018	8270	N-NITROSO-DI-E-PROPYLAMINE	621-64-7		Below MDL ug/K
\$06018	8270	HEXACHLOROETHANE	67-72-1		Below MDL ug/K
\$0601B	8270	NITROBENZENE	98-95-3		Below MDL ug/K
\$06018	8270	ISOPHORONE	78-59-1		Below MDL ug/K
\$06018	8270	Z-NITROPHENOL	88-75-5		Below MDL ug/K
\$06018	8270	2,4-DIMETHYLPHENOL	105-67-9		Below MDL ug/K
\$06018	8270	BIS(-2-CHLOROETHOXY)METHANE	111-91-1		Below MDL ug/K
\$06018	8270	2,4-DICHLOROPHENOL	120-83-2		Below MDL ug/K
\$06018	8270	1,2,4-TRICHLOROBENZENE	120-82-1 65-85-0		Below MDL ug/K
\$06018 \$06018	8270	BENZOIC ACID NAPHTKALENE	91-20-3		Below MDL ug/K
\$06018	8270 8270	4-CHLOROANILINE	106-47-8		Below MDL ug/K
\$06018		•	87-68-3		Below MDL ug/K
\$06018	8270 8270	HEXACHLOROBUTADIENE 4-CHLORO-3-METHYLPHENOL	59-50-7		Below MDL ug/K
\$06018	8270	2-METHYLNAPHTHALENE	91-57-6		Below MDL ug/K
\$06018	8270	HEXACHLOROCYCLOPENTADIENE	77-47-4		Below MDL ug/K
\$06018	8270	2,4,6-TRICHLOROPHENOL	88-06-2		Below MDL ug/K
\$06018	8270	2,4,5-TRICHLOROPHENOL	95-95-4		Below MDL ug/K
\$06018	8270	2-CHLORONAPHTHALENE	91-58-7		Below NDL ug/K
\$06018	8270	2-NITROANILINE	88-74-4		Below MDL ug/K
\$06018	8270 . 8270 .	DIMETHYL PHTHALATE	131-11-3		Below MDL ug/K
\$06018	8270	ACENAPHTHYLENE	208-96-8		Below MDL ug/K
AAAAYD					Below MDL ug/K
\$06018	8270	2,6-DINITROTOLUENE	606-20-2	1000	Below MDL ug/K

Sample ID AE07350

Date Analyzed

05/27/94

Date Sampled

05/25/94

Sample Description 3326B, SB2-3.0'

Time Sampled 15:30

Test Code	Method	Analyte	CAS No.	MDL	Result	Unit
\$06018	8270	3-NITROANILINE	99-09-2	1000	Below MDL	ug/Kg
\$06018	8270	ACENAPETHENE	83-32-9	1000	Below MDL	ug/Rg
\$06018	8270	2.4-DINITROPHENOL	51-28 - 5	5000	Below MDL	ug/Kg
\$06018	8270	4-NITROPHENOL	100-02-7	5000	Below MDL	ug/Kg
\$06018	8270	DIBENZOFURAN	132-64-9	1000	Below MDL	ug/Kg
\$06018	8270	2.4-DINITROTOLUENE	121-14-2	1000	Below MDL	ug/Kg
\$06018 \$06018	8270	DIETHYLPHTHALATE	84-66-2	1000	Below MDL	ug/Kg
\$06018	8270	4-CHLOROPHENYL-PHENYL ETHER	7005-72-3	1000	Below MDL	ug/Kg
\$06018	8270	FLUORENE	86-73-7	1000	Below MDL	ng/Kg
\$06018	8270	4-NITROANILINE	100-01-6	1000	Below MDL	ug/Kg
\$06018	8270	4,6-DINITRO-2-METHYLPHENOL	534-52-1	5000	Below MDL	ug/Kg
\$06018	8270	N-NITROSODIPHENYLAMINE	86-30-6	1000	Below MDL	ug/Kg
\$06018	8270	4-BROMOPHENYL-PHENYL ETHER	101-55-3	1000	Below NDL	ug/Kg
\$06018	8270	HEXACHLOROBENZENE	118-74-1	1000	Below MDL	ug/Kg
\$06018	8270	PENTACHLOROPHENOL	87 - 86-5	5000	Below MDL	ug/Kg
\$06018	8270	PHENANTHRENE	85-01-8	1000	Below MDL	ug/Kg
\$06018	8270	ANTHRACENE	120-12-7	1000	Below MDL	ug/Kg
\$06018	8270	DI-N-BUTYLPHTHALATE	84-74-2	1000	Below MDL	ug/Kg
\$06018	8270	FLUORANTHENE	206-44-0	1000	Below MDL	ug/Kg
\$06018	8270	BENZIDINE	92-87-5	7999	Below MDL	ug/Kg
\$06018	8270	PYRENE	129-00-0	1000	Below MDL	ug/Xg
\$06018	8270	BUTYLBENZYLPHTHALATE	85-68-7	1000	Below MDL	ug/Kg
\$06018	8270	3,3'-DICHLOROBENZIDINE	91-94-1	1000	Below MDL	ug/Kg
\$06018	8270	BENZO(A)ANTERACENE	56-55-3	1000	Below MDL	ug/Kg
\$06018	8270	BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	1000	Below MDL	ug/Kg
\$06018	8270	CHRYSENE	218-01-9	1000	Below MDL	ug/Kg
\$06018	B270	DI-N-OCTYL PHTHALATE	117-84-0	1000	Below MDL	ug/Kg
\$06018	8270	BENZO(B)FLUORANTHENE	205-99-2	1000	Below MDL	ug/Kg
\$05018	8270	BENZO(K) FLUORANTHENE	207-08-9	1000	Below MDL	
\$06018	B270	BENZO(A) PYRENE	50-32-8	1000	Below MDL	ug/Kg
\$06018	8270	INDENO(1,2,3-CD)PYRENE	193-39-5	1000	Below MDL	ug/Kg
\$06018	8270	DIBENZO(A,H)ANTHRACENE	53-70-3	1000	Below MDL	ug/Kg
\$06018	8270	BENZO(G,H,I)PERYLENE	191-24-2	1000	Below MDL	ug/Kg
\$08009	8015	*****TPE 8015 MOD (SOIL)****	•		*******	
\$08009	8015	GASOLINE		10	Below MDL	mg/Kg
\$08009	8015	KEROSENE		10	Below MDL	mg/Kg
\$08009	8015	DIESEL		10	Below MDL	mg/Kg
\$08025	8260	***VOLATILES (GC/MS) (SOIL)*	**		*******	ug/Kg
\$08025	8260	DICHLORODIFLUOROMETHANE	75-71-8	10.0	Below MDL	ug/Kg
\$08025	8260	CHLOROMETHANE	74-87-3	10.0	Below MDL	ug/Kg
\$08025	8260	VINYL CHLORIDE	75-01-4	10.0	Below MDL	ug/Kg
\$08025	8260	BRONOMETHANE	74-83-9	10.0	Below MDL	. ug/Kg
\$08025	8260	CHLOROETHANE	75-00-3	5.0	Below MDL	. ug/Kg
\$08025	8260	TRICHLOROFLUOROMETHANE	75-69-4	5.0	Below MDI	. ug/Kg
\$08025	8260	1,1-DICHLOROETHENE	75-35-4	5.0	Below MDI	.ug/Kg
\$08025	8260	METHYLENE CHLORIDE	75-09-2	10.0	14	ug/Kg
\$08025	8260	CARBON DISULFIDE	75-15-0	5.0	Below MDI	ug/Kg
\$08025	8260	ACRYLONITRILE	107-13-1	5.0	Below MDI	.ug/Kg
\$08025	8260	TRANS-1,2-DICHLOROETHENE	156-60-5	5.0	Below MDI	ug/Kg
\$08025	8260	1,1-DICHLOROETHANE	75-34-3	5.0	Below MDI	ug/Kg
\$08025	8260	2,2-DICHLOROPROPANE	594-20-7	5.0	Below MDI	ug/Kg
\$08025	8260	CIS-1,2-DICHLOROETHENE	156-59-2	5.0	Below MDI	. ug/Kg
\$08025	8260	CHLOROPORM	67-66-3	5.0	Below MDI	ug/Kg
608025	8260	BROMOCHLOROMETHANE	74-97-5	5.0	Below MDI	, ug/Kg

Semple I	D AA073!	50 D a	te Analyzed	05/27/94	Date Sar	npled	05/25/94
-		3326B, \$82-3.0'			Time Sa	mpled	15:30
Sample v	ran iprovi	33200, 232 230		- • •			F1_44
Test Code	Method	Analyte	C	LS No.	MDL -	Result	Unit
\$08025	8260 .	1,1,1-TRICHLOROETHANE		71-55-6	5.0		MDL ug/Kg
\$08025	8260	1,1-DICELOROPROPENE		53-58-6	5.0		MDL ug/Kg
\$08025	8260	CARBON TETRACHLORIDE		56 - 23-5	5.0		MDL ug/Kg
\$08025	8260	1,2-DICHLOROETHANE		06-06-2	5.0		MDL ug/Kg
\$08025	8260	BENZENE		71-43-2	5.0		MDL ug/Kg
\$08025	8260	TRICKLOROETHENE		79-01-6	5.0		MDL ug/Kg
\$08025	8260	1,2-DICHLOROPROPANE		78-87-5	5.0		MDL ug/Kg
\$08025	B260	BROMODICHLOROMETHANE		75-27-4	5.0 5.0		MDL ug/Kg
\$08025	8260	DIBROMOMETHANE		74-95-3	10.0		MDL ug/Kg MDL ug/Kg
\$08025	8260	4-METHYL-2-PENTANONE		06-10-1 91-78-6	10.0		MDL ug/Kg
\$08025	8260	2-HEXANONE		61-01-5	5.0		MDL ug/Kg
\$08025	8260	CIS-1,3-DICHLOROPROPENE		08-88-3	5.0		MDL ug/Kg
\$08025	8260	TOLUENE		61-02-6	5.0		MDL ug/Kg
\$08025	8260	TRANS-1,3-DICHLOROPROPER		79-00-5	5.0		MDL ug/Kg
\$08025	B260	1,1,2-TRICHLOROETHAME			5.0		MDL ug/Kg
\$08025	8260	1,3-DICHLOROPROPANE		42-28-9	5.0		MDL ug/Kg
\$08025	8260	TETRACHLOROETHENE		27-18-4 24-48-1	5.0		MDL ug/Kg
\$08025	8260	CHLORODIBROMOMETHANE	_		5.0		MDL ug/Kg
\$08025	8260	1,2-DIBROMOETHANE	_	06-93-4	5.0		MDL ug/Kg
\$08025	8260	CHLOROBENZENE		08~90-7	5.0		MDL ug/Kg
\$08025	8260	ETHYLBENZENE		0-41-4 30-20-6	5.0		MDL ug/Kg
\$08025	8260.	1,1,1,2-TETRACHLOROETHAN		-	5.0		MDL ug/Kg
\$08025	8260	XYLENE (TOTAL:)		0-20-7	5.0		MDL ug/Kg
\$08025	8260	STYRENE	_	00-42-5	5.0		MDL ug/Kg
\$08025	8260	isopropylbenzene		8-82-8 75 25 2	5.0		MDL ug/Kg
\$08025	8260	BROMOFORM		75-25-2	5.0		MDL ug/Kg
\$08025	8260	1,1,2,2-TETRACHLOROETHA		79-34-5	5.0		MDL ug/Kg
\$08025	8260	1,2,3-TRICHLOROPROPANE		96-18-4 3 65 1	5.0		MDL ug/Kg
\$08025	8260	N-PROPYLBENZENE		3-65-1	5.0		MDL ug/Kg
\$08025	8260	BROMOBENZENE		08-86-1	5.0		MDL ug/Kg
\$08025	B260	1,3,5-TRIMETHYLBENZENE		08-67-8 95-49-8	5.0		MDL ug/Kg
\$08025	8260:	2-CHLOROTOLUENE			5.0		
\$08025	8260	4-CHLOROTOLUENE	=	06-43-4	5.0		MDL ug/Kg MDL ug/Kg
\$08025	8260.	TERT-BUTYLBENZENE		98-06-6			
\$08025	8260	1,2,4-TRIMETHYLBENZENE		95-63-6	5.0		MDL ug/Kg
\$08025	8260	SEC-BUTYLBENZENE		35-98-8	5.0		MDL ug/Kg MDL ug/Kg
\$08025	8260	P-ISOPROPYLTOLUENE		9-87-6	5.0 5.0		MDL ug/Kg
\$08025	B260	1,3-DICHLOROBENZENE		41-73-1	5.0		MDL ug/Kg
\$08025	8260	1,4-DICHLOROBENZENE		06-46-7 04-51-8	5.0		MDL ug/Kg
\$08025	8260	N-BUTYLBENZENE		95-50-1	5.0		MDL ug/Kg
\$08025	8260	1,2-DICHLOROBENZENE		96-12-8	5.0		MDL ug/Kg
\$08025	8260	1,2-DIBROMO-3-CHLOROPRO		.02-82-1	5.0		MDL ug/Kg
\$08025	8260	1,2,4-TRICHLOROBENZENE					MDL ug/Kg
\$08025	8260	HEXACHLOROBUTADIENE		87-68-3 91-20-3	5.0 5.0		MDL ug/Kg
\$08025	8260	NAPHTHALENE		91-20-3 87-61-6	5.0	DATOM	6.3 ug/Kg
\$08025	8260	1,2,3-TRICHLOROBENZENE		87-61-6	3.0		0.5 ug/ng
Sample	ID AA07:		ate Analyzed	05/27/94	Date S	mpled	05/25/94
-	Description		ar mayer	UJILII 71		ampled	14:00
Test Code	e Method	Analyte	(CAS No.	MDL	Resu	it Unit

Sample ID AA07351

Date Analyzed

05/27/94

Date Sampled Time Sampled 05/25/94 14:00

Sample Description	3326B,	SB5-10'
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Test Code	Method	Analyte	CAS No.	MDL "	Result	Unit
	8270	*****SENI VOLATILES (SOIL)****	- **		*****	** ua/Ka
\$06018	8270	N-NITROSODIMETHYLAMINE	62-75-9	1000	Below M	
\$0601B	8270	ANTLINE	62-53-3	1000	Below M	
\$06018	8270	PHENOL	108-95-2	1000		DL ug/Kg
\$06018	8270 8270	BIS(2-CHLOROETHYL) ETHER	111-44-1	1000		DL ug/Kg
\$06018		2-CHLOROPHENOL	95-57-8	1000		DL ug/Kg
\$05018	8270 8270	1,3-DICHLOROBENZENE	541-73-1	1000		DL ug/Kg
\$06018	8270	1.4-DICHLOROBENZENE	106-46-7	1000		DL ug/Kg
\$06018	8270	BENZYL ALCOHOL	100-51-6	1000		DL ug/Kg
\$06018 \$06018	8270	1,2-DICHLOROBENZENE	95-50-1	1000		DL ug/Kg
\$06018	8270	BIS(2-CHLOROISOPROPYL)ETEER	108-60-1	1000		DL ug/Kg
\$06018	8270 8270	2-METHYLPHENOL	95-48-7	1000		DL ug/Kg
\$06018	8270	4-METHYLPHENOL	106-44-5	1000		DL ug/Kg
\$06018	8270	N-NITROSO-DI-N-PROPYLAMINE	621-64-7	1000		DL ug/Kg
· -	8270	HEXACHLOROETHAME	67-72-1	1000		DL ug/Kg
\$06018 \$06018	8270	NITROBENZENE	98-95-3	1000		DL ug/Kg
•	8270	ISOPHORONE	78-59-1	1000		DL ug/Kg
\$06018	8270	2-NITROPHENOL	8875-5	2000		DL ug/Kg
\$06018		2,4-DIMETHYLPHENOL	105-67-9	1000		DL ug/Kg
\$06018	8270 8270	BIS(-2-CHLOROETHOXY)METHANE	111-91-1	1000		DL ug/Kg
\$06018	8270	2,4-DICHLOROPHENOL	120-83-2	1000		DL ug/Kg
\$06018 \$06018	8270	1,2,4-TRICHLOROBENZENE	120-82-1	1000		DL ug/Rg
	8270	BENEOIC ACID	65-85-0	5000		DL ug/Kg
\$06018	8270	NAPHTHALENE	91-20-3	1000		DL ug/Rg
\$06018 \$06018	8270	4-CHLOROANILINE	106-47-8	1000		DL ug/Kg
\$06018	8270	HEXACHLOROBUTADIENE	87-68-3	1000		DL ug/Kg
\$06018	8270 8270	4-CHLORO-3-METHYLPHENOL	59-50-7	2000		DL ug/Kg
	8270	2-METHYLNAPHTHALENE	91-57-6	1000		DL ug/Kg
\$06018 \$06018	8270	REXACHLOROCYCLOPENTADIENE	77-47-4	1000		DL ug/Kg
\$06018	8270	2.4.6-TRICHLOROPHENOL	88-06-2	1000		DL ug/Kg
\$06018	8270	2.4.5-TRICHLOROPHENOL	95-95-4	1000		DL ug/Kg
\$06018	8270	2-CHLORONAPHTHALENE	91-58-7	1000		DL ug/Kg
\$06018	8270	2-NITROANILINE	88-74-4	1000		IDL ug/Kg
\$06018	8270	DIMETHYL PHTHALATE	131-11-3	1000		DL ug/Kg
\$06018	8270	ACENAPHTHYLENE	208-96-8	1000		DL ug/Kg
\$06018	8270	2,6-DINITROTOLUENE	606-20-2	1000		DL ug/Kg
\$06018	8270	3-NITROANILINE	99-09-2	1000		DL ug/Kg
\$06018	8270	ACENAPHTHENE	83-32-9	1000		DL ug/Kg
\$06018	8270	2.4-DINITROPHENOL	51-28-5	5000		DL ug/Kg
\$06018	8270	4-NITROPHENOL	100-02-7	5000		DL ug/Kg
\$06018	8270	DIBENZOFURAN	132-64-9	1000		DL ug/Kg
\$06018	8270	2,4-DINITROTOLUENE	121-14-2	1000		DL ug/Kg
\$06018	8270	DIETHYLPHTHALATE	84-66-2	1000		DL ug/Rg
\$06018	8270	4-CHLOROPHENYL-PHENYL ETHER	7005-72-3	1000		IDL ug/Kg
\$06018	8270	FLUORENE	86-73-7	1000		DL ug/Kg
\$06018	8270	4-NITROANILINE	100-01-6	1000		DL ug/Kg
\$06018	8270	4,6-DINITRO-2-METHYLPHENOL	534-52-1	5000		ODL ug/Kg
\$06018	8270	N-NITROSODIPHENYLAMINE	86-30-6	1000		(DL ug/Kg
\$06018	8270	4-BROMOPHENYL-PHENYL ETHER	101-55-3	1000		DL ug/Kg
\$06018	8270	HEXACHLOROBENZENE	118-74-1	1000		DL ug/Rg
\$06018	8270	PENTACHLOROPHENOL	87-86-5	5000		OL ug/Kg
\$06018	8270	PHENANTRRENE	85-01-8	1000		DL ug/kg
\$06018	8270	ANTHRACENE	120-12-7	1000		IDL ug/Kg
\$06018	8270	DI-N-BUTYLPHTHALATE	84-74-2	1000		EDL ug/Kg

Sample ID AA07351

Date Analyzed

05/27/94

Date Sampled Time Sampled 05/25/94 14:00

Sample Description 3326B, SB5-10'

Test Code	Method	Analyte	CAS No.	MOL	Result	Unit
		FLUORANTHENE	206-44-0	1000		DL ug/Kg -
\$06018	8270	BENZIDINE	92-87-5	7999		DL ug/Kg
\$06018	8270	PYRENE	129-00-0	1000		Dr na\ka
\$06018	8270	BUTYLBENSYLPHTHALATE	85-68- 7	1000		DL ug/Kg
\$06018	8270 8270	3,3'-DICHLOROBENZIDINE	91-94-1	1000		DL ug/Kg
\$06018	8270 8270	BENZO(A) ANTERACENE	56-55-3	1000		DL ug/Kg
\$06018	8270 8270	BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	1000		DL ug/Kg
\$06018	8270 8270	CHRYSENE	218-01-9	1000		IDL ug/Kg
\$06018		DI-N-OCTYL PHTRALATE	117-84-0	1000		ML ug/Kg
\$06018	8270	BENZO(B) FLUORANTHENE	205-99-2	1000		IDL ug/Kg
\$06018	8270	BENZO(K) FLUORANTHENE	207-08-9	1000		IDL ug/Kg
\$06018	8270	BENZO(A) PYRENE	50-32-8	1000		MDL ug/Kg
\$06018	8270	INDENO(1,2,3-CD)PYRENE	193-39-5	1000		IDL ug/Kg
\$06018	8270	DIBENSO(A, H) ANTHRACENE	53-70-3	1000		IDL ug/Kg
\$06018	8270	BENZO(G,E,I)PERYLENE	191-24-2	1000		ODL ug/Kg
\$06018	8270	****TPH 8015 MOD (SOIL)****	•		****	*** mg/Kg
\$08009	8015	GASOLINE		10	Below 1	MDL mg/Kg
\$08009	8015	KEROSENE		10	_	MDL mg/Kg
\$08009	8015	DIESEL		10		MDL mg/Kg
\$08009	8015	***VOLATILES (GC/MS) (SOIL)*	**			*** ug/Kg
\$08025	8260	DICELORODIFLUOROMETRANE	75-71-8	10.0	Below	MDL ug/Kg
\$08025	8260	CHLOROMETHANE	74-87-3	10.0	Below	MDL ug/Kg
\$08025	8260 ·	VINYL CHLORIDE	75-01-4	10.0	Below	MDL ug/Kg
\$08025	8260	BROMOMETHANE	74-83-9	10.0		MDL ug/Kg
\$08025	8260	CHLOROETHANE	75-00-3	5.0		MDL ug/Kg
\$08025	8260	TRICHLOROFLUOROFETHANE	75-69-4	5.0	Below	MDL ug/Kg
\$08025	8260	1,1-DICHLOROETHENE	75-35-4	5.0	Below	MDL ug/Kg
\$08025	8260	METHYLENE CHLORIDE	75-09-2	10.0	Below	MDL ug/Kg
\$08025	8260	CARBON DISULFIDE	75-15-0	5.0	Below	MDL ug/Kg
\$08025	8260·	ACRYLONITRILE	107-13-1	5.0	Below	MDL ug/Kg
\$08025	8260	TRANS-1,2-DICHLOROETHENE	156-60-5	5.0	Below	MDL ug/Kg
\$08025	8260	1,1-DICHLOROETHANE	75-34-3	5.0	Below	MDL ug/Kg
\$08025	8260	2,2-DICHLOROPROPANE	594-20-7	5.0	Below	MDL ug/Kg
\$08025	8260	CIS-1,2-DICHLOROETHENE	156-59-2	5.0	Below	MDL ug/Kg
\$08025	8260	CHLOROFORM	67-66-3	5.0	Below	MDL ug/Kg
\$08025	8260	BROMOCHLOROMETHANE	74-97-5	5.0	Below	MDL ug/Kg
\$08025	8260	1,1,1-TRICHLOROETHANE	71-55-6	5.0	Below	MDL ug/Kg
\$08025	8260	1,1-DICHLOROPROPENE	563-58-6	5.0	Below	MDL ug/Kg
\$08025	8260	CARBON TETRACHLORIDE	56-23-5	5.0	Below	MDL ug/Kg
\$08025		1,2-DICKLOROETHANE	106-06-2	5.0	Below	MDL ug/Kg
\$08025		BENZENE	71-43-2	5.0	Below	MDL ug/Kg
\$08025		TRICKLOROETHÈNE	79-01-6	5.0	Below	MDL ug/Kg
\$08025		1,2-DICHLOROPROPANE	78-87-5	5.0	Below	MDL ug/Kg
\$08025		BROMODICHLOROMETHANE	75-27-4	5.0	Below	MDL ug/Kg
\$08025		DIBROMOMETHANE	74-95-3	5.0	Below	MDL ug/Kg
\$08025		4-METHYL-2-PENTANONE	106-10-1	10.0	Below	MDL ug/Kg
\$08025		2-HEXANONE	591-78-6	10.0	Below	MDL ug/Kg
\$08025	_	CIS-1, 3-DICHLOROPROPENE	10061-01-5	5.0	Below	MDL ug/Kg
\$08025		TOLUENE	108-88-3	5.0	Below	MDL ug/Kg
\$08025		TRANS-1, 3-DICHLOROPROPENE	10061-02-6	5.0	Below	MDL ug/Kg
\$08025	;	1,1,2-TRICHLOROETHANE	79-00-5	5.0	Below	MDL ug/Kg
\$08025		1,3-DICHLOROPROPANE	142-28-9	5.0	Below	MDL ug/Kg
\$08025		TETRACHLOROETHENE	127-18-4	5.0	Below	MDL ug/Kg
\$08025		CHLORODIBROMOMETRANE	124-48-1	5.0	Below	MDL ug/Kg
\$08025	8260	CITTOLON PRINCIPAL THE THE	-			

05/25/94

Date Sampled

Time Sampled 14:00 Sample Description 3326B, SB5-10' MDL Result Unit CAS No. Test Code Method Analyte 106-93-4 5.0 Below MDL ug/Kg 1,2-DIBROMOETHANE \$08025 8260 5.0 Below MDL ug/Kg 108-90-7 CHLOROBENZENE 8260 \$08025 5.0 Below MDL ug/Kg 100-41-4 **ETHYLBENZENE** 8260 \$08025 Below MDL ug/Kg 5.0 630-20-6 1,1,1,2-TETRACHLOROETHANE 8260 S08025 5.0 Below MDL ug/Kg 1330-20-7 XYLENE (TOTAL) 8260 -\$08025 5.0 Below MDL ug/Kg 100-42-5 STYREME S08025 **B260** 5.0 Below MDL ug/Kg 98-82-8 **B250 ISOPROPYLBENZENE** \$08025 5.0 Below MDL ug/Kg 75-25-2 BROMOFORM 8260 S08025 Below MDL ug/Kg 5.0 1,1,2,2-TETRACHLOROETHANE 79-34-5 **B260** S0B025 Below MDL ug/Kg 5.0 1,2,3-TRICHLOROPROPANE 96-18-4 8260 \$08025 103-65-1 5.0 Below MDL uq/Kg n-propylbenzene 8260 S08025 5.0 Below MDL uq/Kg 108-86-1 8260 BROMOBENZENE \$08025 5.0 Below MDL ug/Kg 1,3,5-TRIMETHYLBENZENE 108-67-B 8260 \$08025 5.0 Below MDL ug/Kg 95-49-8 2-CHLOROTOLUENE 8260 S08025 Below MDL uq/Kq 5.0 106-43-4 4-CHLOROTOLUENE 8260 S08025 Below MDL ug/Kg 5.0 98-06-6 TERT-BUTYLBENZENE 8260 \$08025 5.0 Below MDL ug/Kg 95-63-6 1,2,4-TRIMETHYLBENZENE **B260** \$08025 5.0 Below MDL ug/Kg 135-98-8 SEC-BUTYLBENZENE **B260** \$08025 5.0 Below MDL ug/Kg 99-87-6 P-ISOPROPYLTOLUENE \$08025 8260 5.0 Below MDL ug/Kg 541-73-1 1,3-DICHLOROBENZENE 8260 308025 5.0 Below MDL ug/Kg 106-46-7 1,4-DICHLOROBENZENE 8260 \$08025 Below MDL ug/Kg 5.0 104-51-8 N-BUTYLBENZENE 8260 \$08025 Below MDL ug/Kg 5.0 95-50-1 1.2-DICHLOROBENZENE \$08025 8260 Below MDL ug/Kg 5.0 96-12-8 1,2-DIBROMO-3-CHLOROPROPANE 8260 \$08025 5.0 Below MDL uq/Kq 102-82-1 1,2,4-TRICHLOROBENZENE 8260 \$08025 5.0 Below MDL ug/Kg 87-68-3 HEXACHLOROBUTADIENE B260 \$08025 Below MDL ug/Kg 5.0 91-20-3 NAPHTRALENE S08025 8260 87-61-6 5.0 Bolow MDL ug/Kg 1.2.3-TRICHLOROBENZENE 8260 \$08025 **Date Sampled** 05/25/94 05/31/94 Date Analyzed Sample ID AA07352 Time Sampled 14:00 Sample Description 3326B, SB6-10' MDL Unit Result CAS No. Test Code Method Anniyte ****** ug/Kg ****SEMI VOLATILES (SOIL)***** ____ \$06018 8270 1000 Below MDL ug/Kg 62-75-9 N-NITROSODIMETHYLAMINE 8270 506018 1000 Below MDL ug/Kg 62-53-3 ANILINE 8270 \$06018 1000 Below MDL ug/Kg 108-95-2 PHENOL \$06018 **B270** Below MDL ug/Kg 1000 111-44-1 BIS(2-CHLOROETHYL) ETHER 8270 \$06018 1000 Below MDL ug/Kg 95-57-8 2-CHLOROPHENOL 8270 \$06018 Below MDL uq/Kg 1000 541-73-1 1.3-DICHLOROBENZENE **B270** \$06018 1000 Below MDL ug/Kg 106-46-7 1.4-DICHLOROBENZENE 8270 \$06018 1000 Below MDL ug/Kg 100-51-6 BENZYL ALCOHOL 8270· S06018 Below MDL ug/Kg 1000 95-50-1 1,2-DICHLOROBENZENE \$06018 8270 1000 Below MDL ug/Kg BIS(2-CRLOROISOPROPYL)ETHER 108-60-1 8270 \$06018 Below MDL ug/Kg 1000 95-48-7 2-METHYLPHENOL 8270 \$06018 1000 Below MDL ug/Kg 106-44-5 4-METHYLPHENOL \$06018 8270 621-64-7 1000 Below MDL uq/Kq N-NITROSO-DI-N-PROPYLAMINE 8270 \$06018 1000 Below MDL ug/Kg **HEYACHLOROETHANE** 67-72-1 8270 S06018 1000 Below MDL ug/Kg 98-95-3 8270 NITROBENZENE! \$06018 1000 Below MDL ug/Kg 78-59-1 **IBOPHORONE** \$06018 8270 2000 Below MDL ug/Kg 88-75-5 **B270** 2-NITROPHENOL · \$06018

Date Analyzed

Sample ID AA07351

05/27/94

Sample ID AA07352 Date Analyzed 05/31/94 Date Sampled 05/25/94 Sample Description Time Sampled 3326B, SB6-10' 14:00 Test Code Method Analyte CAS No. MDL Result Unit S06018 8270 2.4-DIMETHYLPHENOL 105-67-9 1000 Below MDL ug/Kg 8270 \$06018 BIS(-2-CHLOROETHOXY) METHANE 111-91-1 1000 Below MDL ug/Kg \$06018 8270 -2,4-DICHLOROPHENOL 120-83-2 1000 Below MDL ug/Kg 8270 1,2,4-TRICHLOROBENZENE 120-82-1 \$06018 1000 Below MDL ug/Kg 8270 S06018 BENZOIC ACID 65-85-0 5000 Below MDL ug/Kg \$06018 8270 NAPHTHALENE 91-20-3 1000 Below MDL ug/Kg 806018 8270 4-CHLOROANILINE 106-47-8 1000 Below MDL ug/Kg \$06018 8270 HEXACHLOROBUTADIENE 87-68-3 1000 Below MDL uq/Kq 506018 8270 4-CHLORO-3-METHYLPHENOL 59-50-7 2000 Below MDL ug/Kg 8270 \$06018 2-METHYLNAPHTHALENE 91-57-6 1000 Below MDL ug/Kg \$06018 8270 **HEXACHLOROCYCLOPENTADIENE** 77-47-4 1000 Below MDL ug/Kg \$06018 8270 2.4.6-TRICHLOROPHENOL 88-06-2 1000 Below MDL uq/Kq \$06018 8270 2,4,5-TRICHLOROPHENOL 95-95-4 1000 Below MDL uq/Kq \$06018 8270 2-CHLORONAPHTHALENE 91-58-7 1000 Below MDL ug/Kg 8270 2-NITROANILINE \$06018 88-74-4 1000 Below MDL ug/Kg S06018 8270 ; DIMETHYL PHTHALATE 131-11-3 1000 Below MDL ug/Kg 8270 \$06018 ACENAPHTHYLENE 208-96-8 1000 Below MDL ug/Kg \$06018 8270 2,6-DINITROTOLUENE 606-20-2 1000 Below MDL ug/Kg \$06018 8270 3-NITROANILINE 99-09-2 1000 Below MDL ug/Kg \$06018 8270 ACENAPHTHENE 83-32-9 1000 Below MDL ug/Kg 8270 S06018 2,4-DINITROPHENOL 51-28-5 5000 Below MDL ug/Kg \$06018 8270 4-NITROPHENOL 100-02-7 5000 Below MDL ug/Kg S06018 8270 DIBENZOFURAN 132-64-9 1000 Below MDL ug/Kg \$06018 8270 2.4-DINITROTOLUENE 121-14-2 1000 Below MDL ug/Kg \$06018 8270 DIETHYLPHTHALATE 84-66-2 1000 Below MDL ug/Kg \$06018 8270 4-CHLOROPHENYL-PHENYL ETHER 7005-72-3 1000 Below MDL ug/Kg 8270 \$06018 FLUORENE 86-73-7 1000 Below MDL ug/Kg 8270 \$05018 4-NITROANILINE 100-01-6 1000 Below MDL ug/Kq 506018 8270 4,6-DINITRO-2-METHYLPHENOL 534-52-1 5000 Below MDL ug/Kg \$06018 8270 N-NITROSODIPHENYLAMINE 86-30-6 1000 Below MDL ug/Kg \$06018 8270 4-BROMOPHENYL-PHENYL ETHER 101-55-3 1000 Below MDL ug/Kg \$06018 8270 **HEXACHLOROBENZENE** 118-74-1 1000 Below MDL ug/Kg \$06018 8270 PENTACHLOROPHENOL 87-86-5 Below MDL ug/Kg 5000 \$06018 8270 PHENANTHRENE 85-01-8 1000 Below MDL ug/Kg S06018 8270 ANTHRACENE 120-12-7 1000 Below MDL ug/Kg \$06018 8270 DI-N-BUTYLPHTRALATE 84-74-2 1000 Below MDL ug/Kg \$06018 8270 FLUORANTHENE 206-44-0 1000 Below MDL ug/Rg \$06018 8270 BENZIDINE 92-87-5 7999 Below MDL ug/Kg \$06018 8270 PYRENE 129-00-0 1000 Below MDL ug/Kg \$06018 8270 BUTYLBENZYLPHTHALATE 85-68-7 1000 Below MDL ug/Rg \$06018 8270 3,3'-DICHLOROBENZIDINE 91-94-1 1000 Below MDL ug/Kg \$0601B 8270 BENZO(A)ANTHRACENE 56-55-3 1000 Below MDL ug/Kg \$05018 8270 BIS(2-ETHYLHEXYL) PHTHALATE 117-81-7 1000 Below MDL ug/Kg \$06018 8270 CHRYSENE 218-01-9 1000 Below MDL ug/Kg \$06018 8270 DI-N-OCTYL PHTHALATE 117-84-0 1000 Below MDL ug/Kg \$06018 8270 BENZO(B)FLUORANTHENE 205-99-2 1000 Below MDL ug/Kq \$0601B 8270 BENZO(K) FLUORANTHENE 207-08-9 1000 Below MDL ug/Kg \$06018 8270 BENZO(A)PYRENE 50-32-8 1000 Below MDL ug/Kg \$05018 8270 INDENO(1,2,3-CD)PYRENE 193-39-5 1000 Below MDL uq/Kg \$06018 8270 DIBENZO(A, H) ANTRRACENE 53-70-3 1000 Below MDL ug/Kg \$06018 8270 BENZO(C, H, I) PERYLENE 191-24-2 1000 Below MDL ug/Kg \$08009 8015 *****TPH 8015 MOD (SOIL)***** ****** mg/Kg \$08009 8015 GASOLINE 10 Below MDL mg/Kg \$08009 8015 KEROSENE 10 Below MDL mg/Kg

Sample ID AA07352

8260

\$08025

SEC-BUTYLBENZENE

Date Analyzed

05/31/94

Date Sampled Time Sampled 05/25/94 14:00

Sample Description 3326B, SB6-10'

MDL Result Unit CAS No. Test Code Method Analyte 10 Below MDL mq/Kq 200802 8015 DIESEL ****** ug/Kg 8260 ***VOLATILES (GC/MS) (SOIL)*** S08025 10.0 Below MDL ug/Kg 75-71-B DICHLORODIFLUOROMETHANE 8260 S08025 10.0 Below MDL ug/Kg 74-87-3 CHLOROMETHANE \$08025 8260 10.0 Below MDL ug/Kg 75-01-4 8260 VINYL CHLORIDE \$08025 Below MDL ug/Kq 10.0 74-83-9 BROMOMETHAME 8260 \$08025 5.0 75-00-3 Below MDL ug/Kg 8260 CHLOROETHANE \$08025 75-69-4 5.0 Below MDL ug/Kg TRICHLOROFLUOROMETRANE 8260 S08025 5.0 Below MDL ug/Kg 75-35-4 8260 1.1-DICHLOROETHENE \$08025 Below MDL uq/Kq 10.0 METHYLENE CELORIDE 75-09-2 8260 \$08025 Below MDL ug/Kg 5.0 75-15-0 CARBON DISULFIDE 8260 \$08025 5.0 Below MDL uq/Kg 107-13-1 ACRYLONITRILE S08025 8260 TRANS-1, 2-DICHLOROETHENE 156-60-5 5.0 Below MDL ug/Kg 8260 S08025 5.0 75-34-3 Below MDL ug/Kg 1,1-DICHLOROETHANE 8260 S08025 5.0 Below MDL ug/Kg 594-20-7 8260 2.2-DICKLOROPROPANE S08025 156-59-2 5.0 Below MDL ug/Kg CIS-1,2-DICHLOROETHENE \$08025 8260 5.0 Below MDL ug/Kg CHLOROFORM 67-66-3 \$08025 8260 5.0 Below MDL ug/Kg 74-97-5 8260 BROMOCHLOROMETHANE \$08025 5.0 Below MDL ug/Kg 1.1.1-TRICHLOROETHANE 71-55-6 8260 S08025 5.0 Below MDL ug/Kg 563-5B-6 8260 1.1-DICHLOROPROPENE S08025 5.0 56-23-5 Below MDL ug/Kg 508025 8260 CARBON TETRACHLORIDE 5.0 Below MDL ug/Kg 1,2-DICHLOROETHANE 106-06-2 8260 \$08025 5.0 Below MDL ug/Kg 71-43-2 8260 BENZENĒ \$08025 79-01-6 5.0 9.0 ug/Kg TRICHLOROETHENE \$08025 8260 5.0 Below MDL uq/Kg 78-87-5 8260 1,2-DICHLOROPROPANE \$0B025 5.0 Below MDL ug/Kg 75-27-4 BROMODICHLOROMETHANE 8260 308025 5.0 Below MDL ug/Kg DIBROMOMETHANE 74-95-3 8260 \$08025 106-10-1 10.0 Below MDL ug/Kg \$08025 8260 4-METHYL-2-PENTANONE 10.0 Below MDL ug/Kg 591-78-6 **B260** 2-HEXANONE \$08025 5.0 CIS-1, 3-DICHLOROPROPENE 10061-01-5 Below MDL ug/Kg \$08025 8260 5.0 Below MDL ug/Kg 108-88-3 \$08025 8260 TOLUENE 5.0 TRANS-1, 3-DICHLOROPROPENE 10061-02-6 Below MDL ug/Kg 8260 \$08025 5.0 Below MDL ug/Kg 79-00-5 8260 1.1.2-TRICHLOROETHANE S08025 5.0 142-28-9 Below MDL ug/Kg \$08025 8260 1.3-DICHLOROPROPANE 5.0 6.0 ug/Kg 127-18-4 S08025 8260 TETRACHLOROETHENE 124-48-1 5.0 Below MDL ug/Kg CHLORODIBROMOMETHANE 8260 \$08025 5.0 Below MDL ug/Kg 1.2-DIBROMOETHANE 106-93-4 \$08025 8260 5.0 108-90-7 Below MDL ug/Kg CHLOROBENZENE 8260 308025 5.0 Below MDL ug/Kg **ETHYLBENZENE** 100-41-4 \$08025 **B260** 5.0 Below MDL ug/Kg S08025 8260 1,1,1,2-TETRACHLOROETHANE 630-20-6 1330-20-7 5.0 Below MDL ug/Kg 8260 XYLENE (TOTAL) \$08025 5.0 Below MDL ug/Kg 100-42-5 8260 STYRENE \$08025 5.0 Below MDL ug/Kg 98-82-8 **ISOPROPYLBENZENE** S08025 8260 5.0 Below MDL ug/Kg \$08025 8260 BROMOFORM 75-25-2 Below MDL ug/Kq 79-34-5 5.0 1,1,2,2-TETRACHLOROETHANE \$08025 8260 5.0 96-18-4 Below MDL ug/Kg \$08025 8260 1,2,3-TRICHLOROPROPANE 5.0 8260 . N-PROPYLBENZENE 103-65-1 Below MDL ug/Kg \$08025 Below MDL ug/Kg 5.0 8260 BROMOBENZENE 108-86-1 \$0B025 5.0 \$08025 8260 1,3,5-TRIMETHYLBENZENE 108-67-8 Below MDL ug/Kg 8260 2-CHLOROTOLUENE 95-49-8 5.0 Below MDL ug/Kg \$08025 5.0 8260 4-CHLOROTOLUENE 106-43-4 Below MDL uq/Kq \$08025 5.0 8260 TERT-BUTYLBENZENE 98-06-6 Below MDL ug/Kg S08025 1,2,4-TRIMETHYLBENZENE S08025 8260 95-63-6 5.0 Below MDL ug/Kg

135-98-8

5.0

Below MDL ug/Kg

Sample I		52 Date Anal	yacd 05/31/94			25/94
Sample D)escription	3326B, SB6-10'		Time !	Savapied 14:	00
Test Code	Method	Analyte	CAS No.	MDL	Result	Unit
\$08025	8260	P-ISOPROPYLTOLUENE	99-87-6	5.0	Below MDL	ug/Kg
\$08025	8260	1,3-dichlorobenzene	541-73-1	5.0	Below MDL	
\$08025	8260	1,4-DICHLOROBENSENE	106-46-7	5.0	Below MDL	
\$08025	8260	N-BUTYLBENZENE	104-51-8	5.0	Below MDL	ug/Kg
\$08025	8260	1,2-dichlorobenzene	95-50-1	5.0	Below MDL	ug/Kg
\$08025	8260	1,2-DIBRONO-3-CHLOROPROPANE	96-12-8	5.0	Below MDL	ug/Kg
\$08025	8260	1,2,4-TRICHLOROBENZEME	102-82-1	5.0	Below MDL	ug/Kg
\$08025	8260	HEXACHLOROBUTADIENE	87-68-3	5.0	Below MDL	ug/Kg
\$08025	8260	NAPHTHALENE	91-20-3	5.0	Below MDL	ug/Kg
\$08025	8260	1,2,3-TRICHLOROBENZENE	87-61-6	5.0	Below MDL	ug/Kg
Sample II	D AA073	53 Date Anal	yzed 05/27/94	Date 5	impled 05/	25/94
_	Description	3326B, SB7-10'	,		Sampled 14:	
Test Code	Method	Analyte	CAS No.	MDL	Result	Unit
\$06018	8270	*****SEMI VOLATILES (SOIL)***	**		*****	ug/Ko
\$06018	8270	N-NITROSODIMETHYLAMINE	62-75-9	1000	Below MDL	
\$06018	8270	ANILINE	62-53-3	1000	Below MDL	-
\$06018	8270	PHENOL	108-95-2	1000	Below MDL	
\$06018	8270	BIS(2-CHLOROETHYL) ETHER	111-44-1	1000	Below MDL	
\$06018	8270	2-CHLOROPHENOL	95-57-8	1000	Below MDL	
\$06018	8270	1,3-dichlorobenzene	541-73-1	1000	Below MDL	
\$06018	8270	1,4-dichlorobenzene	106-46-7	1000	Below MDL	ug/Kg
	8270	BENEYL ALCOHOL	100-51-6	1000	Below MDL	ug/Kg
-	8270	1,2-DICHLOROBENZENE	95-50-1	1000	Below MDL	ug/Kg
\$06018	8270	BIS(2-CHLOROISOPROPYL)ETHER	108-60-1	1000	Below MDL	
\$06018	8270	2-METHYLPHENOL	95-48-7	1000	Below MDL	
\$06018	8270	4-METHYLPHENOL	106-44-5	1000	Below MDL	
	8270	N-NITROSO-DI-N-PROPYLAMINE	621-64-7	1000	Below MDL	_
	8270	HEXACHLOROETHANE	67-72-1	1000	Below MDL	_
	8270	NITROBENZENE	98-95-3	1000	Below MDL	
	8270 8270	ISOPHORONE 2-NITROPHENOL	78-59-1	1000	Below MDL	
	8270	2,4-DIMETHYLPHENOL	88-75-5 105-67-9	2000	Below MOL	
	8270	BIS(-2-CHLOROETHOXY)METHANE	111-91-1	1000 1000	Below MDL	
	8270	2,4-DICHLOROPHENOL	120-83-2	1000	Below MDL	
	8270	1,2,4-TRICHLOROBENZENE	120-82-1	1000	Below MDL	-
	8270	BENZOIC ACID	65-85-0	5000	Below MDL :	
	8270	NAPHTHALENE	91-20-3	1000	Below MDL	
	8270	4-CHLOROANILINE	106-47-8	1000	Below MDL	
	8270	HEXACRLOROBUTADIENE	87-68-3	1000	Below MDL	
	8270	4-CHLORO-3-METHYLPHENOL	59-50-7	2000	Below MDL	
\$06018	8270	2-METHYLNAPHTHALENE	91-57-6	1000	Below MDL	
\$06018	8270	HEXACHLOROCYCLOPENTADIENE	77-47-4	1000	Below MDL	
\$06018	8270	2,4,6-TRICHLOROPHENOL	88-06-2	1000	Below MDL	
\$06018	8270	2,4,5-TRICHLOROPHENOL	95-95-4	1000	Below MDL	
\$06018	8270	2-CHLORONAPHTHALENE	91-58-7	1000	Below MDL	
	B270	2-NITROANILINE	88-74-4	1000	Below MDL	
\$06018	8270 '	DIMETRYL PHTHALATE	131-11-3	1000	Below MDL	ug/Ka
\$06018 \$06018	8270 ° 8270 8270	DIMETRYL PHTHALATE ACENAPHTHYLENE 2,6-DINITROTOLUENE	131-11-3 208-96-8	1000 1000 1000	Below MDL to Below MDL to	

05/25/94

14:40

Sample ID Aa07353 Date Analyzed 05/27/94 Date Sampled
Sample Description 3326B, SB7-10' Time Sampled

Sample L	Mescription	3326B, SB7-10'		10,00		יידידי
Test Code	Method	Analyte +	CAS No.	MDL	Result	Unit
806018	8270	3-NITROANILINE	99-09-2	1000	Below MD	L ug/Kg
\$06018	8270	ACENAPHTHENE	83-32-9	1000	'Below ND	L ug/Kg
\$06018	8270	2,4-DINITROPHENOL	51-28-5	5000	Below MD	L ug/Rg
\$06018	8270	4-NITROPHENOL	100-02-7	5000	Below MD	L ug/Kg
\$06018	8270	DIBENEOFURAN	132-64-9	1000	Below MD	L ug/Kg
\$06018	8270	2,4-DINITROTOLUENE	121-14-2	1000	Below MD	L ug/Kg
\$06018	8270	DIETHYLPHTHALATE	84-56-2	1000	Below MD	Lug/Kg
\$0601B	8270	4-CHLOROPHENYL-PHENYL ETHER	7005-72-3	1000	Below MD	
\$06018	8270	FLUORENE	86-73-7	1000	Below MD	L ug/Kg
\$06018	8270	4-NITROANILINE	100-01-6	1000	Below MD	
\$06018	8270	4,6-dinitro-2-methylphenol	534-52-1	5000	Below MD	
\$06018	8270	N-NITROSODIPHENYL AMIN E	86-30-6	1000	Below MD	
\$06018	8270	4-BROMOPHENYL-PHENYL ETHER	101-55-3	1000	Below MD	
\$06018	8270	HEXACELOROBENZENE	118-74-1	1000	Below MD	
\$06018	8270	PENTACHLOROPHENOL	87-86-5	5000	Below MD	
\$06018	8270	PHENANTHRENE	85-01-8	1000	Below MD	
\$06018	8270	ANTHRACENE	120-12-7	1000	Below MD	
\$06018	8270	DI-N-BUTYLPHTHALATE	84-74-2	1000	Below MD	
\$06018	8270	FLUORANTHENE	206-44-0	1000	Below MD	
\$06018	8270	BENZIDINE	92-87-5	7999	Below MU	
\$06018	8270	PYRENE	129-00-0	1000	Below MD	
\$06018	8270	Butylbenzylphthalate	85-68-7	1000	Below ME	
\$06018	8270	3,3'-DICHLOROBENZIDINE	91-94-1	1000	Below MD	-
\$06018	8270	BENZO(A)ANTHRACENE	56-55-3	1000	Below MI	
\$06018	8270	BIS(2-ETRYLHEXYL)PHTHALATE	117-81-7	1000	Below MI	_
\$06018	8270	CHRYSENE	218-01-9	1000	Below MI	
\$06018	8270	DI-N-OCTYL PHTHALATE	117-84-0	1000	Below MI	
\$06018	8270	BENZO(B)FLUORANTHENE	205-99-2	1000	Below MI	
\$06018	8270	BENZO(K)FLUORANTHENE	207-08-9	1000	Below MI	
\$06018	8270	BENZO(A) PYRENE	50-32-8	1000	Below MI	
\$06018	8270	INDENO(1,2,3-CD)PYRENE	193-39-5	1000	Below MI	
\$06018	8270	DIBENZO(A, H) ANTHRACENE	53-70-3	1000	Below MI	
\$06018	8270	BENZO(G,H,I)PERYLENE	191-24-2	1000	Below MI	
\$08009	8015	*****TPH 8015 MOD (SOIL)****	•		Deles 100	
\$08009	8015	GASOLINE		10 10	Below MI	
\$08009	8015	REROSENE	• • •	10	Below MI	
\$08009	8015	DIESEL			Below MI	
\$08025	8260	***VOLATILES (GC/ME) (SOIL)**	75-71-8	10.0	2234+++	
\$08025	8260	DICHLORODIFLUOROMETRANE	74-87-3	10.0	Below MI	
\$08025	8260	CHLOROMETHANE	75-01-4	10.0	Below MI Below MI	
\$08025	8260	VINYL CHLORIDE		10.0	Below MI	
\$08025	8260	BROMOMETHANE	74-83-9 75-00-3	5.0	Below MI	
\$08025	8260	CHLOROETHANE TRICKLOROFLUOROMETHANE	75-69-4	5.0	Below MI	
\$08025	8260		75-35-4	5.0	Below MI	_
\$08025	8260	1,1-dichloroethene Methylene Chloride	75-09-2	10.0	Below MI	
\$08025 \$08025	8260 8260	CARBON DISULFIDE	75-15-0	5.0	Below MI	
-	8260 8260	ACRYLONITRILE	107-13-1	5.0	Below MI	
\$08025 \$08025	8260 8260	TRANS-1,2-DICHLOROETHENE	156-60-5	5.0	Below MI	
\$08025 \$08025	8260 8260	1,1-DICHLOROETHANE	75-34-3	5.0	Below MI	
\$08025	8260 8260	2,2-DICHLOROPROPANE	594 - 20-7	5.0	Below MI	
\$08025	8260 8260	CIS-1,2-DICHLOROETHENE	156-59-2	5.0	Below MI	
\$08025	8260	CHLOROFORM	67-66-3	5.0	Below MI	
\$08025	8260	BROMOCHLOROMETHANE	74-97-5	5.0	Below MI	
7			· -			3,3

Sample ID AA07353

Date Analysed

05/27/94

Date Sampled Time Sampled 05/25/94 14:40

Sample Description	3326B.	SB7-10'
AND DECEMBER 1965	33600,	201. 74

Test Code	Method	Analyte	CAS No.	MDL	Result	Unit _
		1,1,1-TRICHLOROETHANE	71-55-6	5.0	Below MDI	ug/Kg
\$08025	8260 — 8260	1,1-DICHLOROPROPENE	563-58-6	5.0	Below MDI	. ug/Kg
\$08025	8260	CARSON TETRACELORIDE	56-23- 5	5.0	Below MDI	ug/Kg
\$08025		1,2-DICHLOROETHANE	106-06-2	5.0	Below MDI	. ug/Kg
\$08025	8260	BENZENE	71-43-2	5.0	Below MDI	ug/Kg
\$08025	8260	TRICHLOROETHENE	79-01-6	5.0	58	B ug/Kg
\$08025	8260	1,2-DICHLOROPROPANE	78-87-5	5.0	Below MDI	Lug/Kg
\$08025	8260	BROMODICHLOROMETHANE	75-27-4	5.0	Below MDI	Lug/Kg
\$08025	8260 8260	DIBROMOMETHANE	74-95-3	5.0	Below MD	L ug/Kg
\$08025		4-METHYL-2-PENTANONE	106-10-1	10.0	Below MDI	Lug/Kg
\$08025	8260	2-HEXANONE	591-78-6	10.0	Below MD	L ug/Kg
\$08025	8260	CIS-1,3-DICHLOROPROPENE	10061-01-5	5.0	Below MD	Lug/Kg
\$08025	8260	TOLUENE	108-88-3	5.0	Below MD	L ug/Kg
\$08025	8260	TRANS-1, 3-DICHLOROPROPENE	10061-02-6	5.0	Below MD	L ug/Kg
\$08025	8260	1,1,2-TRICHLOROETHANE	79-00-5	5.0	Below MD	Lug/Kg
\$08025	8260	1,3-DICHLOROPROPANE	142-28-9	5.0	Below MD	L ug/Kg
\$08025	8260 :	TETRACHLOROFHENE	127-18-4	5.0		4 ug/Kg
\$08025	8260	CHLORODIBROMOMETHANE	124-48-1	5.0	Below MD	
\$08025	8260		106-93-4	5.0	Below MD	_
\$08025	8260	1,2-DIBROMOETHANE	108-90-7	5.0	Below MD	
\$08025	8260	CHLOROBENZENE	100-41-4	5.0	Below MD	
\$08025	8260	ETHYLBENZENE 1,1,1,2-TETRACHLOROETHANE	630-20-6	5.0	Below MD	
\$08025	B260		1330-20-7	5.0	Below MD	
\$08025	8260	XYLENE (TOTAL)	100-42-5	5.0	Below MD	
\$08025	8260	STYRENE ISOPROPYLBENZENE	98-82-8	5.0	Below MD	
\$08025	8260.		75-25-2	5.0	Below MD	
\$08025	8260	BROMOFORM 1,1,2,2-TETRACHLOROETHANE	79-34-5	5.0	Below MD	•
\$08025	8260	1,2,3-TRICHLOROPROPANE	96-18-4	5.0	Below MD	_
\$08025	8260		103-65-1	5.0	Below MD	
\$08025	8260	N-PROPYLBENZENE	108-86-1	5.0	Below MD	
\$08025	8260	BROMOBENZENE 1,3,5-TRIMETHYLBENZENE	108-67-8	5.0	Below MD	
\$08025	8260	2-CHLOROTOLUENE	95-49-8	5.0	Below MD	
\$08025	8260	4-CHLOROTOLUENE	106-43-4	5.0	Below ME	
\$08025	8260	TERT-BUTYLBENZENE	98-06-6	5.0	Below MI	
\$08025	8260	1,2,4-TRIMETHYLBENZENE	95-63-6	5.0	Below MI	_
\$08025	8260	SEC-BUTYLBENZENE	135-98-8	5.0	Below MI	
\$08025	8260	P-ISOPROPYLTOLUENE	99-87-6	5.0	Below MI	
\$08025	8260	1,3-DICHLOROBENZENE	541-73-1	5.0	Below M	
\$08025	8260	1,4-DICHLOROBENZENE	106-46-7	5.0	Below MI	
\$08025	8260 .	N-BUTYLBENZENE	104-51-8	5.0	Below Mi	
\$08025	8260	1,2-DICHLOROBENZENE	95-50-1	5.0	Below MI	-
\$08025	8260	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	5.0	Below MI	_
\$08025	8260	1,2-dibromo-3-chiorofrom	102-82-1	5.0	Below MI	
\$08025	8260	• •	87-68-3	5.0	Below Mi	
\$08025	8260	HEXACHLOROBUTADIENE NAPHTHALENE	91-20-3	5.0	Below MI	
\$08025	8260	1,2,3-TRICHLOROBENZENE	87-61-6	5.0	Below M	_
\$08025	8260 '	1,2,3-1RICHLOROBBROUND	U48-4	-		J . J

Sample ID AA07354

Date Analyzed

06/01/94 Date Sampled

05/25/94

Sample Description 3326B, SB8-2'

Time Sampled 16:00

Test Code Method

Analyte

CAS No.

MDL Result

Unit

05/25/94

16:00

Sample ID AA07354 Date Analyzed 06/01/94 Date Sampled
Sample Description 3326B, SB8-27
Time Sampled

Sample 1	Jescription	3326B, SB8-2'				0.00
Test Code	Method	Analyte	CAS No.	MDL _	_ Result _	Unit
\$06018	8270	*****SEMI VOLATILES (SOIL)***	**			ug/Kg
\$06018	8270	H-NITROSODIMETHYLAMINE	62-75-9	1000	Below MDI	
\$06018	8270	ANILINE	62-53 -3	1000	Below MDI	
\$06018	8270	PHENOL	108-95-2	1000	Below MDI	. ug/Kg
\$06018	8270	BIS(2-CHLOROPTHYL) ETHER	111-44-1	1000	Below MDI	Lug/Kg
\$06018	8270	2-CHLOROPHENOL	95~57~8	1000	Below MDI	
\$06018	8270	1,3-dichlorobenzene	541-73-1	1000	Below MDI	-
\$06018	8270	1,4-DICHLOROBENZENE	106-46-7	1000	Below MDI	
\$06018	8270	BENZYL ALCOHOL	100-51-6	1000	Below MDI	
\$06018	8270	1,2-DICHLOROBENZENE	95-50-1	1000	Below MDI	
\$0601B	8270	BIS(2-CHLOROISOPROPYL)ETHER	108-60-1	1000	Below MDI	
\$0601B	B270	2-METHYLPHENOL	95-48-7	1000	Below MDI	
\$06018	8270	4-METHYLPHENOL	106-44-5	1000	Below MDI	
\$06018	8270	n-nitroso-di-n-propylanine	621-64-7	1000	Below MDI	
\$06018	8270	HEXACHLOROETHANE	67-72-1	1000	Below MDI	
\$06018	B270	NITROBENZENE	98-95-3	1000	Below MDI	
\$06018	8270	ISOPHORONE	78-59-1	1000	Below MD	
\$06018	8270 `	2-NITROPHENOL	88-75-5	2000	Below MDI	
\$06018	8270	2,4-DIMETHYLPHENOL	105-67-9	1000	Below MD1	
\$06018	8270	BIS(-2-CHLOROETHOXY)METHANE	111-91-1	1000	Below MD	L ug/Kg
\$06018	8270	2,4-DICHLOROPHENOL	120-83-2	1000	Below MDI	L ug/Kg
\$06018	8270	1,2,4-TRICHLOROBENZENE	120-82-1	1000	Below MD	L ug/Kg
\$05018	8270	BENZOIC ACID	65-85-0	5000	Below MD	Lug/Kg
\$06018	8270	NAPHTHALENE	91-20-3	1000	Below MD	Lug/Kg
\$06018	8270	4-CHLOROANILINE	106-47-B	1000	Below MD	L ug/Kg
\$0601B	8270	HEXACHLOROBUTADIENE	87-68-3	1000	Below MD	L ug/Kg
\$06018	8270	4-CHLORO-3-METHYLPHENOL	59-50-7	2000	Below MD	L ug/Kg
\$06018	8270	2-METHYLNAPHTHALENE	91-57-6	1000	Below MD	Lug/Kg
\$06018	8270	HEXACHLOROCYCLOPENTADIENE	77-47-4	1000	Below MD	L ug/Kg
\$06018	8270	2,4,6-TRICHLOROPHENOL	88-06-2	1000	Below MD	L ug/Kg
\$06018	B270	2,4,5-TRICHLOROPHENOL	95-95-4	1000	Below MD	L ug/Kg
\$06018	8270	2-CHLORONAPHTHALENE	91-58-7	1000	Below MD	Lug/Kg
\$06018	8270	2-NITROANILINE	88-74-4	1000	Below MD	L ug/Kg
\$06018	B270	DIMETHYL PHTHALATE	131-11-3	1000	Below MD	L ug/Kg
\$06018	8270	ACENAPHTHYLENE	208-96-8	1000	Below MD	L ug/Kg
\$06018	8270	2,6-DINITROTOLUENE	606-20-2	1000	Below MD	Lug/Kg
\$06018	8270	3-NITROANILINE	99-09-2	1000	Below MD	L ug/Kg
\$06018	8270	ACENAPHTHENE	83-32-9	1000	Below MD	L ug/Kg
\$06018	8270	2,4-DINITROPHENOL	51-28-5	5000	Below MD	L ug/Kg
\$06018	8270	4-NITROPHENOL	100-02-7	5000	Below MD	L ug/Kg
\$06018	8270	DIBENZOFURAN ·	132-64-9	1000	Below MD	L ug/Kg
\$06018	8270	2,4-DINITROTOLUENE	121-14-2	1000	Below MD	L ug/Kg
\$06018	8270	DIETHYLPHTHALATE	84-66-2	1000	Below MD	L ug/Kg
\$06018	8270	4-CHLOROPHENYL-PHENYL ETHER	7005-72-3	1000	Below MD	L ug/Kg
\$06018	8270	FLUORENE	86-73-7	1000	Below MD	L ug/Kg
\$06018	8270 .	4-NITROANILINE	100-01-6	1000	Below MD	L ug/kg
\$06018	8270	4,6-dinitro-2-methylphenol	534-52-1	5000	Below MD	L ug/Kg
\$06018	8270	n-nitrosodiphenylamine	86-30-6	1000	Below MD	L ug/Kg
\$06018	8270	4-Bromophenyl-Phenyl ether	101-55-3	1000	Below MD	L ug/Kg
\$06018	8270	HEXACEL OROBENZENE	118-74-1	1000	Below MD	L ug/Kg
\$06018	8270	PENTACHLOROPHENOL	87-86-5	5000	Below MD	L ug/Kg
\$06018	8270	PHENANTHRENE	85-01-8	1000		0 ug/Kg
\$06018	8270	ANTHRACENE	120-12-7	1000	selow MU.	L ug/Kg
\$06018	8270	DI-N-BUTYLPHTEALATE	84-74-2	1000	Below MD	L ug/Kg

Sample ID AA07354
Sample Description 3326B, SB8-2'

Date Analysed 06/01/94

Date Sampled Time Sampled 05/25/94 16:00

Test Code	Method	Analyte	CAS No.	MDL	Result	Unit
\$06018	8270	FLUORANTHENE	206-44-0	1000	1690	ug/Rg
\$06018	8270	BENZIDINE	92-87-5	7999	Below MDI	ug/Kg
\$06018	8270	PYRENE	129-00-0	1000	1830	ug/Kg
\$06018	8270	BUTYLBENZYLPETBALATE	85-68-7	1000	Below MDI	ug/Kg
\$06018	8270	3,3'-DICHLOROBENZIDINE	91-94-1	1000	Below MDI	ug/Kg
\$06018	8270	BENZO(A)ANTERACENE	56-55-3	1000		ug/Kg
\$06018	8270	BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	1000	Below MDI	
\$06018	8270	CERYSENE	218-01-9	1000		ug/Kg
\$06018	8270	DI-N-OCTYL PHTHALATE	117-84-0	1000	Below MDI	
\$06018	8270	BENZO(B)FLUORANTHENE	205-99~2	1000	Below KDI	ug/Kg
\$06018	8270	BENZO(K) FLUORANTHENE	207-08-9	1000	1040	ug/Kg
\$06018	8270	BENZO(A) PYRENE	50~32-8	1000		ug/Kg
\$0601B	8270	INDENO(1,2,3-CD)PYRENE	193-39-5	1000	Below MDI	
\$06018	8270	DIBENSO(A, H) ANTHRACENE	53-70-3	1000		ug/Kg
\$06018	8270	BENZO(G, H, I) PERYLENE	191-24-2	1000		ug/Kg
\$08009	8015	*****TPH 8015 MOD (SOIL)*****			*******	
\$08009	8015	GASOLINE		10	Below MDI	
\$08009	8015	KEROSENE		10	Below MDI	
\$08009	8015	DIESEL		10	Below MDI	
\$08025	8260	***VOLATILES (GC/MS) (SOIL)**	•		*****	
\$08025	8260	DICHLORODIFLUOROMETHANE	75-71-8	10.0	Below MDI	
\$08025	8260	CHLOROMETHANE	74-87-3	10.0	Below MDI	
\$08025	8260	VINYL CHLORIDE	75-01-4	10.0	Below MDI	
\$08025	8260	BROMOMETHANE	74-83-9	10.0	Below MDI	
\$08025	8260	CHLOROETHANE	75-00-3	5.0	Below MDI	
\$08025	8260	TRICHLOROFLUOROMETHANE	75-69-4	5.0	Below MDI	
\$08025	8260	1,1-DICHLOROETHENE	75-35-4	5.0	Below MDI	
\$08025	8260	METHYLENE CHLORIDE	75-09-2	10.0	Below MDI	
\$08025	8260	CARBON DISULFIDE	75-15-0	5.0	Below MDI	
\$08025	8260	ACRYLONITRILE	107-13-1	5.0	Below MDI	
\$08025	8260	TRANS-1, 2-DICHLOROETHENE	156-60-5	5.0	Below MDI	
\$08025	8260	1,1-DICHLOROETHANE	75-34-3	5.0	Below MDI	
\$08025	8260	2,2-DICHLOROPROPANE	594-20-7	5.0	Below MDI	
\$08025	8260	CIS-1, 2-DICHLOROETHENE	156-59-2	5.0	Below MDI	
\$08025	8260	CELOROFORM	67-66-3	5.0	Below MDI	
\$08025	8260	BROMOCHLOROMETHANE	74-97-5	5.0	Below MDI	
\$08025	8260	1,1,1-TRICHLOROETHANE	71-55-6	5.0	Below MDI	
\$08025	8260	1,1-DICHLOROPROPENE	563-58-6	5.0	Below MDI	
\$08025	8260	CARBON TETRACELORIDE	56-23-5	5.0	Below MDI	
\$08025	8260	1,2-DICHLOROETHANE	106-06-2	5.0	Below MDI	
\$08025	8260	BENZENE	71-43-2	5.0	Below MDI	
\$08025	8260	TRICHLOROETHENE	79-01-6	12.5		ug/Kg
\$08025	8260	1,2-DICHLOROPROPANE	78-87-5	5.0	Below MDI	-
\$08025	8260	BRONODICHLOROMETHANE	75-27-4	5.0	Below MDI	
\$08025	8260	DIBRONOMETHANE	74-95-3	5.0	Below MDI	
\$08025	8260	4-METEYL-2-PENTANONE	106-10-1	10.0	Below MDI	
\$08025	8260	2-HEXANONE	591-78-6	10.0	Below MDI	-
\$08025	8260	CIS-1,3-DICHLOROPROPENE	10061-01-5	5.0	Below MDI	
\$08025	8260	TOLUENE	108-88-3	5.0		. ug/Kg
\$08025	8260	TRANS-1, 3-DICHLOROPROPENE	10061-02-6	5.0	Below MDI	-
\$08025	8260	1,1,2-TRICHLOROETHANE	79-00-5	5.0	Below MDI	
\$08025	8260	1,3-DICHLOROPROPANE	142-28-9	5.0	Below MDI	
\$08025	8260	TETRACHLOROETHENE	127-18-4	12.5		ug/Kg
\$08025	8260	CHLORODIBROMOMETHANE	124-48-1	5.0	Below MDI	

Cample II	D AA073	54 Date Anal	vacd 06/01/94	Date Sa	mpled	05/25/94
Sample D			,	Time Sa	mpled	16:00
Sample D	escripțion	3326B, SB8-2'		_	- ,	_
Test Code	Method	Analyte	CAS No.	MDL	Result	<u>Uzi</u> t
\$08025	8260	1,2-DIBROMOETHANE	106-93-4	5.0		NOL ug/Kg
\$08025 \$08025	8260	CHLOROBENZENE	108-90-7	5.0		MDL ug/Kg
\$08025	8260	ETHYLBENZENE :	100-41-4	5.0		MDL ug/Kg
\$08025	8260	1,1,1,2-TETRACHLOROETHANE	630-20-6	5.0		MDL ug/Kg
\$08025	8260	XYLENE (TOTAL)	1330-20-7	5.0		MDL ug/Kg
\$08025	8260	STYRENE	100-42-5	5.0		MDL ug/Kg
\$08025	8260	ISOPROPYLBENZENE	98-B2-8	5.0		MDL ug/Kg
\$08025	8260	BRONOFORM	75-25-2	5.0		MDL vg/Kg
\$08025	8260	1,1,2,2-TETRACHLOROETHANE	79-34-5	5.0		MDL ug/Kg
\$08025	8260	1,2,3-TRICHLOROPROPANE	96-18-4	5.0		MDL ug/Kg
\$08025	8260	N-PROPYLBENZENE	103-65-1	5.0		MDL ng/Kg
\$08025	8260	BROMOBENZENE	108-86-1	5.0		MDL ug/Kg
\$08025	8260	1,3,5-TRIMETHYLBENZENE	108-67-8	5.0		MDL ug/Kg
\$08025	8260	2-CHLOROTOLUENE	95-49-8	5.0		MDL ug/Kg
\$08025	8260	4-CHLOROTOLUENE	106-43-4	5.0		MDL ug/Kg
\$08025	8260	TERT-BUTYLBENZENE	98-06-6	5.0		MDL ug/Kg
\$08025	8260	1,2,4-TRIMETHYLBENZENE	95-63-6	5.0		MDL ug/Kg
\$08025	8260	SEC-BUTYLBENZENE	135-98-8	5.0	Below	MDL ug/Kg
\$08025	8260	P-ISOPROPYLTOLUENE	99-87-6	5.0	Below	MDL ug/Kg
•	8260	1,3-DICHLOROBENZENE	541-73-1	5.0	Below	MDL ug/Kg
\$08025	8260.	1,4-DICHLOROBENZENE	106-46-7	5.0	Below	MDL ug/Kg
\$08025	8260. 8260	N-BUTYLBENZENE	104-51-8	5.0	Below	MDL ug/Kg
\$08025	8260 8260	1,2-DICHLOROBENZENE	95-50-1	5.0	Below	MDL ug/Kg
\$08025	8260	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	5.0	Below	MDL ug/Kg
\$08025	8260	1,2,4-TRICHLOROBENZENE	102-82-1	5.0	Below	MDL ug/Kg
\$08025	8260	HEXACHLOROBUTADIENE	87-68-3	5.0	Below	MDL ug/Kg
\$08025		NAPHTHALENE	91-20-3	5.0	Below	MDL ug/Kg
\$08025	8260 8260	1,2,3-TRICHLOROBENZENE	87-61-6	5.0	Below	MDL ug/Kg
\$08025	8260	1,2,3-1R1Canoxonnan	2, 1			
	 -			5.4.6	. 11	057564
Sample	ID AA07:	355 Date An	ulyzed 05/31/94		ampled	05/25/94
Sample	Descripțion	3326B, SB9-3'		Time S	Sampled	16:30
Test Code	Method	Analyte	CAS No.	MDL	Resul	t Unit
\$06018	8270	*****SEMI VOLATILES (SOIL)**	***			**** ug/Kg
\$06018	8270	N-NITROSODIMETHYLAMINE	62-75-9	1000		MDL ug/Kg
\$06018	8270	ANILINE	62-53-3	1000		MDL ug/Rg
\$06018	8270	PHENOL .	108-95-2	1000		MDL ug/Kg
\$06018	8270	BIS(2-CHLOROETHYL) ETHER	111-44-1	1000		MDL ug/Kg
\$06018	8270	2-CHLOROPHENOL	95-57-8	1000		MDL ng/Kg
\$06018	8270	1,3-DICHLOROBENZENE	541-73-1	1000		MDL ug/Kg
\$06018	8270	1,4-DICHLOROBENZENE	106-46-7	1000		MDL ug/Kg
\$06018	8270	BENZYL ALCOHOL	100-51-6	1000		MDL ug/Kg
\$06018	8270	1,2-DICHLOROBENZENE	95-50-1	1000		MOL ug/Kg
\$06018	8270	BIS(2-CHLOROISOPROPYL)ETHER	108-60-1	1000		MDL ug/Kg
\$0601B	8270	2-METHYLPHENOL	95-48-7	1000		MDL ug/Kg
\$06018	8270	4-methylphenol	106-44-5	1000		HDL ug/Kg
\$06018	8270	N-NITROSO-DI-N-PROPYLAMINE	621-64-7	. 1000		MDL ug/Kg
\$06018	8270	HEXACHLOROETHANE	67-72-1	1000		MDL ug/Kg
\$06018	8270	NITROBENZENE	98-95-3	1000		MDL ug/Kg
\$06018	B270	ISOPHORONE	78-59-1	1000		MDL ug/Kg
\$06018	8270	2-WITROPHENOL	88-75-5	2000	Below	MDL ug/Kg

Sample ID AA07355

Date Analysed

05/31/94

Date Sampled

05/25/94 16:30

Sample Description 3326B, SB9-3

Time Sampled

Sample: 1	Septembinen.			MDL -	Result Unit
Test Code	Method	Analyte	CAS No.		
\$06018	8270	2,4-DIMETHYLPHENOL	105-67-9	1000	Below MDL ug/Kg Below MDL ug/Kg
\$06018	8270	BIS(-2-CHLOROETHOXY)METHANE	111-91-1	1000	Below MDL nd/Kd
\$06018	8270	2,4-DICHLOROPHENOL	120-83-2	1000	Below MDL ug/Kg
\$06018	8270	1,2,4-TRICHLOROBENSENE	120-82-1	1000	Below MDL ug/Kg
\$06018	8270	BENZOIC ACID	65-85-0	5000	Below MDL ug/Kg
\$06018	8270	NAPHTHALENE	91-20-3	1000	Below MDL ug/Kg
\$06018	8270	4-CHLOROANILINE	106-47-8	1000	Below MDL ug/Kg
\$0601B	8270	HEXACHLOROBUTADIENE	87-68-3	1000	Below MDL ug/Kg
\$06018	8270	4-CHLORO-3-METHYLPHENOL	59-50-7	2000 1000	Below MDL ug/Kg
\$06018	8270	2-METHYLNAPHTHALENE	91-57-6	1000	Below MDL ug/Kg
\$06018	8270	HEXACHLOROCYCLOPENTADIENE	77-47-4	1000	Below MDL ug/Kg
\$06018	8270	2,4,6-TRICHLOROPHENOL	88-06-2	1000	Below MDL ug/Kg
\$06018	8270	2,4,5-TRICHLOROPHENOL	95-95-4		Below MDL ug/Kg
\$0601B	8270	2-CHLORONAPHTHALENE	91-58-7	1000	Below MDL ug/Kg
\$06018	8270	2-nitroaniline	88-74-4	1000	Below MDL ug/Kg
\$06018	8270	DIMETHYL PHTHALATE	131-11-3	1000	
\$06018	8270	ACENAPHTHYLENE	208-96-8	1000 1000	Below MDL ug/Kg Below MDL ug/Kg
\$06018	8270	2,6-DINITROTOLUENE	606-20-2		Below MDL ug/Kg
\$0601B	8270	3-NITROANILINE	99-09-2	1000 1000	Below MDL ug/Kg
\$06018	8270	acenaphthene	83-32-9	5000	Below MDL ug/Kg
\$06018	8270	2,4-DINITROPHENOL	51-28-5	5000	Below MDL ug/Kg
\$06018	8270	4-nitrophenol	100-02-7	1000	Below MDL ug/Kg
\$06018	8270	DIBENZOFURAN	132-64-9	1000	Below MDL ug/Kg
\$06018	8270	2,4-DINITROTOLUENE	121-14-2	1000	Below MDL ug/Kg
\$06018	8270	DIETHYLPHTHALATE	84-66-2	1000	Below MDL ug/Kg
\$05018	8270	4-CHLOROPHENYL-PHENYL ETHER	7005-72-3	1000	Below MDL ug/Kg
\$06018	8270	PLUORENE	86-73-7	1000	Below MDL ug/Kg
\$06018	8270	4-NITROANILINE	100-01-6 534-52-1	5000	Below MDL ug/Kg
\$0601B	8270	4,6-DINITRO-2-METHYLPHENOL	86-30-6	1000	Below MDL ug/Kg
\$06018	8270	N-NITROSODIPHENYLAMINE		1000	Below MDL ug/Kg
\$06018	8270	4-BROMOPHENYL-PHENYL ETHER	101-55-3 118-74-1	1000	Below MDL ug/Kg
\$06018	8270	HEXACHLOROBENZENE	87-86-5	5000	Below MDL ug/Kg
\$0601B	8270	PENTACHLOROPHENOL	85-01-8	1000	Below MDL ug/Kg
\$06018	8270	PHENANTHRENE		1000	Below MDL ug/Kg
\$06018	8270	ANTHRACENE	120-12-7 84-74-2	1000	Below MDL ug/Kg
\$06018	8270	DI-N-BUTYLPHTHALATE	206-44-0	1000	Below MDL ug/Kg
\$06018	8270	PLUORANTHENE .	92-87-5	7999	Below MDL ug/Kg
\$06018	8270	BENZIDINE	129-00-0	1000	Below MDL ug/Kg
\$06018	8270	PYRENE	85-68-7	1000	Below MDL ug/Kg
\$06018	8270	BUTYLBENZYLPHTHALATE	91-94-1	1000	Below MDL ug/Kg
\$06018	8270	3,3'-DICHLOROBENZIDINE	56-55-3	1000	Below MDL ug/Rg
\$06018		BENZO(A) ANTHRACENE	117-81-7	1000	Below MDL ug/Rg
\$06018		BIS(2-ETHYLHEXYL)PHTHALATE	218-01-9	1000	Below MDL ug/Kg
\$06018		CHRYSENE	117-84-0	1000	Below MDL ug/Kg
\$06018		DI-M-OCTYL PHTHALATE	205-99-2	1000	Below MDL ug/Kg
\$06018		BENEO(B) FLUORANTHEME	207-08-9	1000	Below MDL ug/Kg
\$06018		BENZO(K)FLUORANTHENE	50-32-8	1000	Below MDL ug/Kg
\$06018		BENZO(A)PYRENE INDENO(1,2,3-CD)PYRENE	193-39-5	1000	Below MDL ug/Kg
\$06018		DIBENZO(A, H) ANTHRACENE	53-70-3	1000	Below MDL ug/Kg
\$06018		BENZO(G, H, I) PERYLENE	191-24-2	1000	Below MDL ug/Kg
\$06018		*****TPE 8015 MOD (SOIL)***			****** mg/Kg
\$08009				10	Below MDL mg/Kg
\$08009	•	Gasoline Kerosene		10	Below MDL mg/Kg
\$08009	8015	RERUSEDE			

Sample ID aa07355 Date Analyzed 05/31/94 Date Sampled 05/25/94
Sample Description 3326B, SB9-3' Time Sampled 16:30

Sample Description 3326B, SB9-3'			11me 5	impecu 16:30	
Test Code	Method	Analyte	CAS No	MDL	Result . Unit
\$08009	8015	DIESEL		10	Below MDL mg/Kg
\$08025	8260	***VOLATILES (GC/MS) (SOIL)***			******* ug/Kg
\$08025	8260	DICHLORODIFLUOROMETHAME	75-71 - 8	10.0	Below NDL ug/Kg
\$08025	8260	CHLOROMETHANE	74-87-3	10.0	Below MDL ug/Kg
\$08025	8260	VINYL CHLORIDE	75-01-4	10.0	Below MDL ug/Kg
\$08025	8260	BROMOMETHANE	74-83-9	10.0	Below MDL ug/Kg
\$08025	B260 .	CHLOROETHANE	75-00-3	5.0	Below MDL ug/Kg
\$08025	8260	TRICHLOROFLUOROMETHANE	75-69-4	5.0	Below MDL ug/Kg
\$08025	8260	1,1-DICHLOROETHENE	75-35-4	5.0	Below MDL ug/Kg
\$08025	8260 .	METRYLENE CHLORIDE	75-09-2	10.0	Below MDL ug/Kg
\$08025	8260 :	CARBON DISULFIDE	75-15-0	5.0	Selow MDL ug/Kg
\$08025	8260	ACRYLONITRILE	107-13-1	5.0	Below MDL ug/Kg
\$08025	8260	TRANS-1,2-DICELOROETHENE	156-60-5	5.0	Below MDL ug/Kg
\$08025	B260	1,1-DICHLOROETHANE	75-34-3	5.0	Below MDL ug/Kg
\$08025	8260	2,2-DICHLOROPROPANE	594-20-7	5.0	Below MDL ug/Kg
\$08025	8260	CIS-1,2-DICHLORGETHENE	156-59-2	5.0	Below MDL ug/Kg
\$08025	B260	CHLOROFORM	67-66-3	5.0	Below MDL ug/Kg
\$08025	8260	BROMOCHLOROMETHANE	74-97-5	5.0	Below MDL ug/Kg
\$08025	8260	1,1,1-TRICHLOROETHANE	71-55-6	5.0	Below MDL ug/Kg
\$08025	8260	1,1-DICHLOROPROPENE	563-58-6	5.0	Below MDL ug/Kg
\$08025	8260	CARBON TETRACHLORIDE	56-23-5	5.0	Below MDL ug/Kg
\$08025	8260	1,2-DICHLOROETHANE	106-06-2	5.0	Below MDL ug/Kg
\$08025	8260	BENZENE	71-43-2	5.0 5.0	Below MDL ug/Kg
\$08025	8260	TRICHLOROETHENE	79-01-6 78-87-5	5.0	Below MDL ug/Kg
\$08025 \$08025	8260 8260	1,2-DICHLOROPROPANE BROMODICHLOROMETHANE	75-27-4	5.0	Below MDL ug/Kg
\$08025	8260 8260	DIBRONOMETHANE	74-95-3	5.0	Below MDL ug/Rg
\$08025	8260	4-methyl-2-pentanone	106-10-1	10.0	Below MDL ug/Kg
\$08025	8260	2-HEXANONE	591-78-6	10.0	Below MDL ug/Kg
\$08025	8260	CIS-1,3-DICHLOROPROPENE	10061-01-5	5.0	Below MDL ug/Kg Below MDL ug/Kg
\$08025	8260	TOLUENE	108-88-3	5.0	Below MDL ug/Kg
\$08025	8260	TRANS-1, 3-DICHLOROPROPENE	10061-02-6	5.0	Below MDL ug/Kg
\$08025	8260	1,1,2-TRICHLOROETHAME	79-00-5	5.0	Below MDL ug/Kg
\$08025	B260 .	1,3-DICELOROPROPANE	142-28-9	5.0	Below MDL ug/Rg
\$08025	8260	TETRACHLOROETHENE	127-18-4	5.0	Below MDL ug/Kg
\$08025	8260	CHLORODIBROMOMETHANE	124-48-1	5.0	Below MDL ug/Kg
\$08025	8260	1,2-DIBROMOETHANE	106-93-4	5.0	Below MDL ug/Kg
\$08025	8260	CHLOROBENZENE	108-90-7	5.0	Below MDL ug/Kg
\$08025	8260	ETHYLBENZENE	100-41-4	5.0	Below MDL ug/Kg
\$08025	8260	1,1,1,2-TETRACHLOROETHANE	630-20-6	5.0	Below MDL ug/Kg
\$08025	8260	KYLENE (TOTAL)	1330-20-7	5.0	Below MDL ug/Kg
\$08025	8260	STYRENE	100-42-5	5.0	Below MDL ug/Kg
\$08025	8260	ISOPROPYLBENZENE	98-82-8	5.0	Below MDL ug/Kg
\$08025	8260	BROMOFORM	75-25-2	5.0	Below MDL ug/Kg
\$08025	8260	1,1,2,2-TETRACHLOROETHANE	79-34-5	5.0	Below MDL ug/Rg
\$08025	8260	1,2,3-TRICHLOROPROPANE	96-18-4	5.0	Below MDL ug/Kg
\$08025	8260	N-PROPYLBENZENE	103-65-1	5.0	Below MDL ug/Kg
\$08025	8260	BROMOBENZENE	108-86-1	5.0	Below MDL ug/Kg
\$08025	8260	1,3,5-TRIMETHYLBENZENE	108-67-8	5.0	Below MDL ug/Kg
\$08025	B260	2-CHLOROTOLUENE '	95-49-8	5.0	Below MDL ug/Kg
\$08025	8260	4-CHLOROTOLUENE	106-43-4	5.0	Below MDL ug/Kg
\$08025	8260 .	TERT-BUTYLBENZENE	98-06-6	5.0	Below MDL ug/Kg
\$08025	8260	1,2,4-TRIMETHYLBENZENE	95-63-6	5.0	Below MDL ug/Kg
\$08025	8260	SEC-BUTYLBENZENE	135-98-8	5.0	Below MDL ug/Kg

125 F	27	JUN -03	'94	10:01

Sample ID AA07355 Sample Description 3326B, SB9-3		3 3	ate Analyzed 05/31/94		ampled .05/25/94 ampled 16:30
Test Code		Appalyte	CAS No	MDL	Result Unit
\$08025 \$08025 \$08025 \$08025 \$08025 \$08025 \$08025 \$08025 \$08025 \$08025	8260 8260 8260 8260 8260 8260 8260 8260	P-ISOPROPYLTOLUENE 1,3-DICHLOROBENSENE 1,4-DICHLOROBENSENE B-BUTYLBENSENE 1,2-DICHLOROBENSENE 1,2-DIBRONO-3-CHLOROPRO 1,2,4-TRICHLOROBENSENE HEXACHLOROBUTADIENE NAPETHALENE 1,2,3-TRICHLOROBENSENE	99-87-6 541-73-1 106-46-7 104-51-8 95-50-1 96-12-8 102-82-1 87-68-3 91-20-3 87-61-6	5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	Below MDL ug/Kg

Clinically Proven...

Environmentally Sound!

Certifying Scientist

EcoSys Laboratory Services

ANALYTICAL REPORT

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Client Code

20111539

Ledger Number

103049

P.O. Number

Date Received Time Received 05/26/94 10:45

Date Reported

06/02/94

Date Analyzed

05/27/94

Date Sampled

05/24/94

Time Sampled

15:15

Sample Description 3326B, SB3-2.3'

Test Code	Method	Analyte	CAS No.	MDL	Result	Unit
\$06018	8270	*****SEMI VOLATILES (SOIL)***	**		*****	ug/Kg
\$06018	8270	N-NITROSODIMETHYLAMINE	62-75-9	1000	Below MDL	ug/Kg
\$06018	8270	ANILINE	62-53-3	1000	Below MDI	ug/Kg
\$06018	8270	PHENOL	108-95-2	1000	Below MDI	ug/Kg
\$06018	8270	BIS(2-CHLOROETHYL) ETHER	111-44-1	1000	Below MDI	ug/Kg
\$06018	8270	2-CHLOROPHENOL	95-57-8	1000	Below MDI	
\$06018	8270	1,3-DICHLOROBENZENE	541-73-1	1000	Below MDI	ug/Kg
\$06018	8270	1,4-DICHLOROBENZENE	106-46-7	1000	Below MDI	, ug/Kg
\$06018	8270	BENZYL ALCOHOL	100-51-6	1000	Below MDI	. ug/Kg
\$06018	8270	1,2-DICHLOROBENZENE	95-50-1	1000	Below MDI	.ug/Kg
\$06018	8270	BIS(2-CHLOROISOPROPYL)ETHER	108-60-1	1000	Below MDI	ug/Kg
\$06018	8270	2-METHYLPHENOL	95-48-7	1000	Below MDI	ug/Kg
\$06018	8270	4-METHYLPHENOL	106-44-5	1000	Below MDI	ug/Kg
\$06018	8270	N-NITROSO-DI-N-PROPYLAMINE	621-64-7	1000	Below MDI	, ug/Kg
\$06018	8270	HEXACHLOROETHANE	67-72-1	1000	Below MDI	.ug/Kg
\$06018	8270	NITROBENZENE	98-95-3	1000	Below MDI	. ug/Kg
\$06018	8270	ISOPHORONE	78-59-1	1000	Below MDI	.ug/Kg
\$06018	8270	2-NITROPHENOL	88-75-5	2000	Below MDI	ug/Kg
\$06018	8270	2,4-DIMETHYLPHENOL	105-67-9	<u> 100</u> 0	Below MDI	ug/Kg
\$06018	8270	BIS(-2-CHLOROETHOXY)METHANE	111-91-1	1090	Below MDI	Lug/Kg
\$06018	8270	2,4-DICHLOROPHENOL	120-83-2	1000	Below MDI	ug/Kg
\$06018	8270	1,2,4-TRICHLOROBENZENE	120-82-1	1000	Below MDI	
\$06018	8270	BENZOIC ACID	65-85-0	777	Below MDI	
\$06018	8270	NAPHTHALENE	[كير] 3-20-3	<u>က</u> 100þ	Below MDI	
\$06018	8270	4-CHLOROANILINE	106-47-8	○ 1000	Below MDI	-
\$06018	8270	HEXACHLOROBUTADIENE	87-68-3	1000	Below MDJ	
\$06018	8270	4-CHLORO-3-METHYLPHENOL	59-50-7	-	Below MDI	Lug/Kg
\$06018	8270	2-METHYLNAPHTHALENE	91-57-6	14600∮	Below MDI	
\$06018	8270	HEXACHLOROCYCLOPENTADIENE	77-47-4	1000	Below MDI	-
\$06018	8270	2,4,6-TRICHLOROPHENOL	88-06-2	1000	Below MD	_
\$06018	8270	2,4,5-TRICHLOROPHENOL	95-95-4	1000	Below MD	Lug/Kg
\$06018	8270	2-CHLORONAPHTHALENE	91-58-7	1000	Below MD	L ug/Kg
\$06018	8270	2-NITROANILINE	88-74-4	1000	Below MD	-
\$06018	8270	DIMETHYL PHTHALATE	131-11-3	1000	Below MD	
\$06018	8270	ACENAPHTHYLENE	208-96-8	1000	Below MD	
\$06018	8270	2,6-DINITROTOLUENE	606-20-2	1000	Below MD	L ug/Kg

Sample ID AA07347

3326B, SB3-2.3'

Sample Description

Date Analyzed

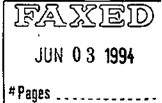
05/27/94

Date Sampled

05/24/94

Time Sampled 15:15

Test Code	Method	Analyte	CAS No.	MDL	Result	Unit
\$06018	8270 _	.3-NITROANILINE	99-09-2	1000	Below MDL	. ug/Kg·
\$06018	8270	ACENAPHTHENE	83-32-9	1000	Below MDL	
\$06018	8270	2,4-DINITROPHENOL	51-28-5	5000	Below MDL	ug/Rg
\$06018	8270	4-NITROPHENOL	100-02-7	5000	Below MDL	ug/Kg
\$06018	8270	DIBENZOFURAN	132-64-9	1000	Below MDL	ug/Kg
\$06018	8270	2,4-DINITROTOLUENE	121-14-2	1000	Below MDL	ug/Kg
\$06018	8270	DIETHYLPHTHALATE	84-66-2	1000	Below MDL	ug/Kg
\$06018	8270	4-CHLOROPHENYL-PHENYL ETHER	7005-72-3	1000	Below MDL	ug/Kg
\$06018	8270	FLUORENE	86-73-7	1000	Below MDI	ug/Kg
\$06018	8270	4-NITROANILINE	100-01-6	1000	Below MDL	ug/Kg
\$06018	8270	4,6-DINITRO-2-METHYLPHENOL	534-52-1	5000	Below MDI	ug/Kg
\$06018	8270	N-NITROSODIPHENYLAMINE	86-30-6	1000	Below MDI	ug/Kg
\$06018	8270	4-BROMOPHENYL-PHENYL ETHER	101-55-3	1000	Below MDL	ug/Kg
\$06018	8270	HEXACHLOROBENZENE	118-74-1	1000	Below MDI	ug/Kg
\$06018	8270	PENTACHLOROPHENOL	87-86-5	5000	Below MDL	ug/Kg
\$06018	8270	PHENANTHRENE	85-01-8	1000	Below MDL	. ug/Kg
\$06018	8270	ANTHRACENE	120-12-7	1000	Below MDI	ug/Kg
\$06018	8270	DI-N-BUTYLPHTHALATE	84-74-2	1000	Below MDI	ug/Kg
\$06018	8270	FLUORANTHENE	206-44-0	1000	Below MDI	
\$06018	8270	BENZIDINE	92-87 - 5	7999	Below MDI	ug/Kg
\$06018	8270	PYRENE	129-00-0	1000	Below MDI	ug/Kg
\$06018	8270	BUTYLBENZYLPHTHALATE	85-68-7	1000	Below MDI	ug/Kg
\$06018	8270	3,3'-DICHLOROBENZIDINE	91-94-1	1000	Below MDI	ug/Kg
\$06018	8270	BENZO(A)ANTHRACENE	56-55-3	1000	Below MDI	
\$06018	8270	BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	1000	Below MDI	
\$06018	8270	CHRYSENE	218-01-9	1000	Below MDI	. ug/Kg
\$06018	8270	DI-N-OCTYL PHTHALATE	117-84-0	1000	Below MDI	
\$06018	8270	BENZO(B)FLUORANTHENE	205-99-2	1000	Below MDI	
\$06018	8270	BEN2O(K)FLUORANTHENE	207-08-9	1000	Below MDI	
\$06018	8270	BENZO(A) PYRENE	50-32-8	1000	Below MDI	
\$06018	8270	INDENO(1,2,3-CD)PYRENE	193-39-5	1000	Below MDI	
\$06018	8270	DIBENZO(A,H)ANTHRACENE	53-70-3	1000	Below MDI	
\$06018	8270	BENZO(G,H,I)PERYLENE	191-24-2	1000	Below MDI	ug/Kg
\$08009	8015	*****TPH 8015 MOD (SOIL)*****	•		*****	
\$08009	8015	GASOLINE		10	Below MDI	_mg/Kg
\$08009	8015	KEROSENE		10	Below MDI	mg/Kg
\$08009	8015	DIESEL		10	Below MDI	ng/Kg
\$08025	8260	***VOLATILES (GC/MS) (SOIL)**	r ±		*****	ug/Kg
\$08025	8260	DICHLORODIFLUOROMETHANE	75-71-8	10.0	Below MDI	ug/Kg
\$08025	8260	CHLOROMETHANE	74-87-3	10.0	Below MDI	ug/Kg
\$08025	8260	VINYL CHLORIDE	75-01-4	10.0	Below MDI	Lug/Kg
\$08025	8260	BROMOMETHANE	74-83-9	10.0	Below MDI	L ug/Kg
\$08025	8260	CHLOROETHANE	75-00-3	5.0	Below MDI	Lug/Kg
\$08025	8260	TRICHLOROFLUOROMETHANE	75-69-4	5.0	Below MDI	
\$08025	8260	1,1-DICHLOROETHENE	75-35-4	5.0	Below MDI	_
\$08025	8260	METHYLENE CHLORIDE	75-09-2	10.0	Below MDI	Lug/Kg
\$08025	8260	CARBON DISULFIDE	75-15-0	5.0	Below MDI	
\$08025	8260	ACRYLONITRILE	107-13-1	5.0	Below MDI	-
\$08025	8260	TRANS-1,2-DICHLOROETHENE	156-60-5	5.0	Below MDI	
\$08025	8260	1,1-DICHLOROETHANE	75-34-3	5.0	Below MD	_
\$08025	8260	2,2-DICHLOROPROPANE	594-20-7	5.0	Below MDI	
	-					



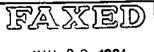
Sample ID AA07347 Date Analyzed

05/27/94

Date Sampled Time Sampled 05/24/94 15:15

Sample Description 3326B, SB3-2.3'

Test Code	Method	Analyte	CAS No	-MDL -	Result	Unit
\$08025	8260	CIS-1,2-DICHLOROETHENE	156-59-2-		Below MDL	ug/Kg 🕳
\$08025	8260	CHLOROFORM	67-66-3	5.0	Below MDL	
\$08025	8260	BROMOCHLOROMETHANE	74-97-5	5.0	Below MDL	ug/Kg
\$08025	8260	1,1,1-TRICHLOROETHANE	71-55-6	5.0	Below MDI	ug/Kg
\$08025	8260	1,1-DICHLOROPROPENE	563-58-6	5.0	Below MDI	ug/Kg
\$08025	8260	CARBON TETRACHLORIDE	56-23-5	5.0	Below MDI	ug/Kg
\$08025	8260	1,2-DICHLOROETHANE	106-06-2	5.0	Below MDI	ug/Kg
\$08025	8260	BENZENE	71-43-2	5.0	Below MDI	ug/Kg
\$08025	8260	TRICHLOROETHENE	79-01-6	25.0	640	ug/Kg
\$08025	8260	1,2-DICHLOROPROPANE	78-87-5	5.0	Below MDI	. ug/Kg
\$08025	8260	BROMODICHLOROMETHANE	75-27-4	5.0	Below MDI	, ug/Kg
\$08025	8260	DIBROMOMETHANE	74-95-3	5.0	Below MDI	. ug/Kg
\$08025	8260	4-METHYL-2-PENTANONE	106-10-1	10.0	Below MDI	. ug/Kg
\$08025	8260	2-HEXANONE	591-78-6	10.0	Below MDI	
\$08025	8260	CIS-1,3-DICHLOROPROPENE	10061-01-5	5.0	Below MDI	ug/Kg
\$08025	8260	TOLUENE	108-88-3	5.0	Below MDI	. ug/Kg
\$08025	8260	TRANS-1,3-DICHLOROPROPENE	10061-02-6	5.0	Below MDI	ug/Kg
\$08025	8260	1,1,2-TRICHLOROETHANE	79-00-5	5.0	Below MDI	. ug/Kg
\$08025	8260	1,3-DICHLOROPROPANE	142-28-9	5.0	Below MDI	ug/Kg
\$08025	8260	TETRACHLOROETHENE	127-18-4	5.0	200	ug/Kg
\$08025	8260	CHLORODIBROMOMETHANE	124-48-1	5.0	Below MDI	ug/Kg
\$08025	8260	1,2-DIBROMOETHANE	106-93-4	5.0	Below MDI	ug/Kg
\$08025	8260	CHLOROBENZENE	108-90-7	5.0	Below MDI	ug/Kg
\$08025	8260	ETHYLBENZENE	100-41-4	5.0	Below MDI	.ug/Kg
\$08025	8260	1,1,1,2-TETRACHLOROETHANE	630-20-6	5.0	Below MDI	ug/Kg
\$08025	8260	XYLENE (TOTAL)	1330-20-7	5.0	Below MDI	ug/Kg
\$08025	8260	STYRENE	100-42-5	5.0	Below MDI	ug/Kg
\$08025	8260	ISOPROPYLBENZENE	98-82-8	5.0	Below MDI	ug/Kg
\$08025	8260	BROMOFORM	75-25-2	5.0	Below MDI	ug/Kg
\$08025	8260	1,1,2,2-TETRACHLOROETHANE	79-34-5	5.0	Below MDI	Lug/Kg
\$08025	8260	1,2,3-TRICHLOROPROPANE	96-18-4	5.0	Below MDJ	iug/Kg
\$08025	8260	N-PROPYLBENZENE	103-65-1	5.0	Below MDI	ug/Kg
\$08025	8260	BROMOBENZENE	108-86-1	5.0	Below MDI	Lug/Kg
\$08025	8260	1,3,5-TRIMETHYLBENZENE	108-67-8	5.0	Below MD1	.ug/Kg
\$08025	8260	2-CHLOROTOLUENE	95-49-8	5.0	Below MD	
\$08025	8260	4-CHLOROTOLUENE	106-43-4	5.0	Below MD	
\$08025	8260	TERT-BUTYLBENZENE	98-06-6	5.0	Below MD	
\$08025	8260	1,2,4-TRIMETHYLBENZENE	95-63-6	5.0	Below MD	_
\$08025	8260	SEC-BUTYLBENZENE	135-98-8	5.0	Below MD	
\$08025	8260	P-ISOPROPYLTOLUENE	99-87-6	5.0	Below MD	
\$08025	8260	1,3-DICHLOROBENZENE	541-73-1	5.0	Below MD	-
\$08025	8260	1,4-DICHLOROBENZENE	106-46-7	5.0	Below MD	
\$08025	8260	N-BUTYLBENZENE	104-51-8	5.0	Below MD	
\$08025	8260	1,2-DICHLOROBENZENE	95-50-1	5.0	Below MD	
\$08025	8260	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	5.0	Below MD	
\$08025	8260	1,2,4-TRICHLOROBENZENE	102-82-1	5.0	Below MD	
\$08025	8260	HEXACHLOROBUTADIENE	87-68-3	5.0		
\$08025	8260	NAPHTHALENE	91-20-3	5.0		
\$08025	8260	1,2,3-TRICHLOROBENZENE	87-61-6	5.0	Below MD	L ug/Kg



JUN 0 3 1994

Sample ID AA07348 Date Analyzed 06/01/94 Date Sampled 05/24/94
Sample Description 3326B, SB1-3.0' Time Sampled 10:30

зашріс 2	courpas.	33208, 381-310			-	
Test Code	Method	Analyte	CAS No.	MDL	Result	Unit
\$06018	8270	*****SEMI VOLATILES (SOIL)***			*****	
\$06018	8270	N-NITROSODIMETHYLAMINE	62-75-9	1000	Below MDL	
\$06018	8270	ANILINE	62-53-3	1000	Below MDL	
\$06018	8270	PHENOL	108-95-2	1000	Below MDL	
\$06018	8270	BIS(2-CHLOROETHYL) ETHER	111-44-1	1000	Below MDL	
\$06018	8270	2-CHLOROPHENOL	95-57-8	1000	Below MDL	
\$06018	8270	1,3-DICHLOROBENZENE	541-73-1	1000	Below MDL	
\$06018	8270	1,4-DICHLOROBENZENE	106-46-7	1000	Below MDL	
\$06018	8270	BENZYL ALCOHOL	100-51-6	1000	Below MDL	
\$06018	8270	1,2-DICHLOROBENZENE	95-50-1	1000	Below MDL	
\$06018	8270	BIS(2-CHLOROISOPROPYL)ETHER	108-60-1	1000	Below MDL	
\$06018	8270	2-METHYLPHENOL	95-48-7	1000	Below MDL	
\$06018	8270	4-METHYLPHENOL	106-44-5	1000	Below MDL	
\$06018	8270	N-NITROSO-DI-N-PROPYLAMINE	621-64-7	1000	Below MDL	
\$06018	8270	HEXACHLOROETHANE	67-72-1	1000	Below MDL	
\$06018	8270	NITROBENZENE	98-95-3	1000	Below MDL	
\$06018	8270	ISOPHORONE	78-59-1	1000	Below MDL	
\$06018	8270	2-NITROPHENOL	88-75-5	2000	Below MDI	
\$06018	8270	2,4-DIMETHYLPHENOL	105-67-9	1000	Below MDL	-
\$06018	8270	BIS(-2-CHLOROETHOXY)METHANE	111-91-1	1000	Below MDL	
\$06018	8270	2,4-DICHLOROPHENOL	120-83-2	1000	Below MDL	
\$06018	8270	1,2,4-TRICHLOROBENZENE	120-82-1	1000	Below MDI	
\$06018	8270	BENZOIC ACID	65-85-0	5000	Below MDL	
\$06018	8270	NAPHTHALENE	91-20-3	1000	Below MDI	
\$06018	8270	4-CHLOROANILINE	106-47-8	1000	Below MDI	
\$06018	8270	HEXACHLOROBUTADIENE	87-68-3	1000	Below MDI	
\$06018	8270	4-CHLORO-3-METHYLPHENOL	59-50-7	2000	Below MDI	
\$06018	8270	2-METHYLNAPHTHALENE	91-57-6	1000 1000	Below MDI	
\$06018	8270	HEXACHLOROCYCLOPENTADIENE	77-47-4 88-06-2	1000	Below MDI	
\$06018	8270	2,4,6-TRICHLOROPHENOL		1000	Below MDI Below MDI	-
\$06018	8270	2,4,5-TRICHLOROPHENOL	95-95-4	1000	Below MDI	
\$06018	8270	2-CHLORONAPHTHALENE	91-58-7	1000	Below MDI	
\$06018	8270	2-NITROANILINE	- ()	1000	Below MDI	
\$06018	8270		T21	1000	Below MDI	
\$06018	8270	ACENAPHTHYLENE S S	208-96-8 606-20-2	1000	Below MDI	
\$06018	8270	· · · · · · · · · · · · · · · · · · ·	_	1000	Below MDI	-
\$06018	8270		√] 99-09-2 √S 83-32-9	1000	Below MDI	
\$06018	8270		<i>_</i> 7₁!	5000	Below MDI	
\$06018	8270	4-NITROPHENOL	51-28-5 100-02-7	5000	Below MDI	
\$06018	8270	dibenzofuran		1000	Below MDI	
\$06018	8270		121-14-2	1000	Below MDI	
\$06018	8270	2,4-DINITROTOLUENE	84-66-2	1000	Below MDI	
\$06018	8270	DIETHYLPHTHALATE	7005-72-3	1000	Below MDI	-
\$06018	8270	4-CHLOROPHENYL-PHENYL ETHER	86-73-7	1000	Below MDI	
\$06018	8270	FLUORENE	100-01-6	1000		
\$06018	8270	4-NITROANILINE 4,6-DINITRO-2-METHYLPHENOL	534-52-1	5000		
\$06018	8270	-	86-30-6	1000		-
\$06018 \$06018	8270 8270	N-NITROSODIPHENYLAMINE 4-BROMOPHENYL-PHENYL ETHER	101-55-3	1000		-
\$06018	8270 8270	HEXACHLOROBENZENE	118-74-1	1000		
\$06018	8270 8270	PENTACHLOROBENZENE PENTACHLOROPHENOL	87-86-5	5000		
\$06018	8270 8270	PENTACHLOROPHENOL PHENANTHRENE	85-01-8	1000		ug/Kg Dug/Kg
			120-12-7	1000		
\$06018	8270 8270	ANTHRACENE	84-74-2	1000		
\$06018	8270	DI-N-BUTYLPHTHALATE	04-/4-2	1000	Derow MDI	n advyd

Sample I	D AA073	48	Date Analyz	zed (06/01/94	Date	Sampled	05/24/94
Sample I)escription	3326B, SB1-3.0'				Time	Sampled	10:30
Test Code	Method	Analyte		CAS	No.	MDL	Result	Unit
\$06018	8270	FLUORANTHENE		206-4		1000	-5	100 ug/Kg
\$06018	8270	BENZIDINE		92-8		7999		MDL ug/Kg
\$06018	8270	PYRENE		129-0		1000		950 ug/Kg
\$06018	8270	BUTYLBENZYLPHTHALATE		85-6		1000		MDL ug/Kg
\$06018	8270	3,3'-DICHLOROBENZIDIN	E	91-9		1000		MDL ug/Kg
\$06018	8270	BENZO(A)ANTHRACENE		56-5		1000		300 ug/Kg
\$06018	8270	BIS(2-ETHYLHEXYL)PHTH	ALATE	117-8 218-0		1000 1000		MDL ug/Kg 200 ug/Kg
\$06018	8270	CHRYSENE DI-N-OCTYL PHTHALATE		117-8		1000		MDL ug/Kg
\$06018	8270 8270	BENZO(B)FLUORANTHENE		205-9		1000		030 ug/Kg
\$06018 \$06018	8270	BENZO(K)FLUORANTHENE		207-0		1000		460 ug/Kg
\$06018 \$06018	8270	BENZO(A)PYRENE		50-3		1000		710 ug/Kg
\$06018	8270	INDENO(1,2,3-CD)PYREN	R	193-3		1000		470 ug/Kg
\$06018 \$06018	8270	DIBENZO(A, H) ANTHRACEN		53-7		1000		340 ug/Kg
\$06018	8270	BENZO(G, H, I) PERYLENE	_	191-2		1000		000 ug/Kg
\$08009	8015	****TPH 8015 MOD (SO	IL)****					*** mg/Kg
\$08009	8015	GASOLINE				10		MDL mg/Kg
\$08009	8015	KEROSENE				10		MDL mg/Kg
\$08009	8015	DIESEL				10	Below	MDL mg/Kg
\$08025	8260	***VOLATILES (GC/MS)	(SOIL)***	•			****	*** ug/Kg
\$08025	8260	DICHLORODIFLUOROMETHA			71-8	10.0	Below	MDL ug/Kg
\$08025	8260	CHLOROMETHANE		74-	-87-3	10.0	Below	MDL ug/Kg
\$08025	8260	VINYL CHLORIDE		75-	-01-4	10.0	Below	MDL ug/Kg
\$08025	8260	BROMOMETHANE		74-	-83-9	10.0		MDL ug/Kg
\$08025	8260	CHLOROETHANE			-00-3	5.0		MDL ug/Kg
\$08025	8260	TRICHLOROFLUOROMETHAN	E		-69-4	5.0		MDL ug/Kg
\$08025	8260	1,1-DICHLOROETHENE			-35-4	5.0	Below	MDL ug/Kg
\$08025	8260	METHYLENE CHLORIDE			-09-2	10.0		16 ug/Kg
\$08025	8260	CARBON DISULFIDE			-15-0	5.0		MDL ug/Kg
\$08025	8260	ACRYLONITRILE			-13-1	5.0		MDL ug/Kg
\$08025	8260	TRANS-1,2-DICHLOROETH	ENE		-60-5	5.0		MDL ug/Kg
\$08025	8260	1,1-DICHLOROETHANE			-34-3 -20-7	5.0 5.0		MDL ug/Kg MDL ug/Kg
\$08025	8260	2,2-DICHLOROPROPANE CIS-1,2-DICHLOROETHEN	E.		-20-7 -59-2	5.0		MDL ug/Kg
\$08025 \$08025	8260 8260	CHLOROFORM	b		-66-3	5.0		MDL ug/Kg
\$08025	8260 8260	BROMOCHLOROMETHANE			-97 - 5	5.0		MDL ug/Kg
\$08025	8260	1 1 1_TOTCHTODOPTHANK			-55-6	5.0		MDL ug/Kg
\$08025	8260	1,1-DICHLOROPROPENE	JU Pages	γ <u>28</u> 83.		5.0		MDL ug/Kg
\$08025	8260	CARBON TETRACHLORIDE		ام کا 6۔		5.0		MDL ug/Kg
\$08025	8260	1,2-DICHLOROETHANE	- saf	106		5.0		MDL ug/Kg
\$08025	8260	BENZENE		S/3/1-	-43-2	5.0		MDL ug/Kg
\$08025	8260	TRICHLOROETHENE	ြယ	l∕7bh.	-016	5.0	Below	MDL ug/Kg
\$08025	8260	1,2-DICHLOROPROPANE	比古	DCHB.	-87-5	5.0	Below	MDL ug/Kg
\$08025	8260	BROMODICHLOROMETHANE	1994	(C) 2/5.	-27-4	5.0	Below	MDL ug/Kg
\$08025	8260	DIBROMOMETHANE	}	~ / / /	-95-3	5.0		MDL ug/Kg
\$08025	8260	4-methyl-2-pentanone	<u> </u>		-10-1	10.0		MDL ug/Kg
\$08025	8260	2-HEXANONE			-78-6	10.0		MDL ug/Kg
\$08025	8260	CIS-1,3-DICHLOROPROPE	NE	10061-		5.0	Below	MDL ug/Kg
\$08025	8260	TOLUENE			-88-3	5.0	_	8.0 ug/Kg
\$08025	8260	TRANS-1,3-DICHLOROPRO		10061		5.0		MDL ug/Kg
\$08025	8260	1,1,2-TRICHLOROETHANE	;		-00-5	5.0		MDL ug/Kg
\$08025	8260	1,3-DICHLOROPROPANE			-28-9	5.0		MDL ug/Kg
\$08025	8260	TETRACHLOROETHENE			-18-4	5.0		MDL ug/Kg
\$08025	8260	CHLORODIBROMOMETHANE		124	-48-1	5.0	ReTOM	MDL ug/Kg

Cample D	AA073		Analyzed 06/01/94		ampled 05/24/94 Sampled 10:30
-	escription	3326B, SB1-3.0'			•
Test Code	Method	Analyte	"CAS No."	- MDL	Result Unit
	8260	1,2-DIBROMOETHANE	106-93-4	5.0	Below MDL ug/Kg
	8260	CHLOROBENZENE	108-90-7 100-41-4	5.0 5.0	Below MDL ug/Kg
	8260	ETHYLBENZENE	630-20-6	5.0	Below MDL ug/Kg Below MDL ug/Kg
	8260 8260	1,1,1,2-TETRACHLOROETHANE XYLENE (TOTAL)	1330-20-7	5.0	Below MDL ug/Kg
	8260	STYRENE	100-42-5	5.0	Below MDL ug/Kg
	8260	ISOPROPYLBENZENE	98-82-8	5.0	Below MDL ug/Kg
	8260	BROMOFORM	75-25-2	5.0	Below MDL ug/Kg
• •	8260	1,1,2,2-TETRACHLOROETHANE	79-34-5	5.0	Below MDL ug/Kg
	8260	1,2,3-TRICHLOROPROPANE	96-18-4	5.0	Below MDL ug/Kg
	8260	N-PROPYLBENZENE	103-65-1	5.0	Below MDL ug/Kg
	8260	BROMOBENZENE	108-86-1	5.0	Below MDL ug/Kg
08025	8260	1,3,5-TRIMETHYLBENZENE	108-67-8	5.0	Below MDL ug/Kg
08025	8260	2-CHLOROTOLUENE	95-49-8	5.0	Below MDL ug/Kg
08025	8260	4-CHLOROTOLUENE	106-43-4	5.0	Below MDL ug/Kg
08025	8260	TERT-BUTYLBENZENE	98-06-6	5.0	Below MDL ug/Kg
08025	8260	1,2,4-TRIMETHYLBENZENE	95-63-6	5.0	Below MDL ug/Kg
08025	8260	SEC-BUTYLBENZENE	135-98-8	5.0	Below MDL ug/Kg
08025	8260	P-ISOPROPYLTOLUENE	99-87-6	5.0	Below MDL ug/Kg
08025	8260	1,3-DICHLOROBENZENE	541-73-1	5.0	Below MDL ug/Kg
08025	8260	1,4-DICHLOROBENZENE	106-46-7	5.0	Below MDL ug/Kg
08025	8260	N-BUTYLBENZENE	104-51-8	5.0	Below MDL ug/Kg
08025	8260	1,2-DICHLOROBENZENE	95-50-1	5.0	Below MDL ug/Kg
08025	8260	1,2-DIBROMO-3-CHLOROPROPAN		5.0 5.0	Below MDL ug/Kg
08025	8260	1,2,4-TRICHLOROBENZENE	102-82-1 87-68-3	5.0 5.0	6.0 ug/Kg
508025	8260	HEXACHLOROBUTADIENE	01-00-7	5.0	Below MDL ug/Ro
		***	03 20 2	E 0	Dalan MDT um/Pe
\$08025	8260 8260	NAPHTHALENE 1,2,3-TRICHLOROBENZENE	91-20-3 87-61-6	5.0 5.0	Below MDL ug/Kg 8.0 ug/Kg
\$08025 \$08025		1,2,3-TRICHLOROBENZENE		5.0	
\$08025 \$08025 Sample I	8260	1,2,3-TRICHLOROBENZENE 49 Date	87-61-6	5.0 Date S	8.0 ug/Kg
S08025 S08025 Sample I	8260 D AA073 Description	1,2,3-TRICHLOROBENZENE 49 Date	87-61-6	5.0 Date S	8.0 ug/Kg Sampled 05/24/94
Sample I Sample I	8260 D AA073 Description Method	1,2,3-TRICHLOROBENZENE 49 Date 3326B, SB4-2.5' Analyte	87-61-6 Analyzed 06/01/94 CAS No.	5.0 Date S Time	8.0 ug/Ke Sampled 05/24/94 Sampled 15:00 Result Unit
Sample I Sample I Test Code	B260 D AA073 Description Method B270	1,2,3-TRICHLOROBENZENE 49 Date 3326B, SB4-2.5' Analyte ****SEMI VOLATILES (SOIL)	87-61-6 Analyzed 06/01/94 CAS No.	5.0 Date S Time S MDL	8.0 ug/Ke Sampled 05/24/94 Sampled 15:00 Result Unit ************************************
Sample I Sample I Cest Code 606018	8260 D AA073 Description Method	1,2,3-TRICHLOROBENZENE 49 Date 3326B, SB4-2.5' Analyte	87-61-6 Analyzed 06/01/94 CAS No.	Date S Time S MDL	8.0 ug/Ke Sampled 05/24/94 Sampled 15:00 Result Unit ***********************************
Sample I Sample I Cest Code 506018 506018	B260 D AA073 Description Method B270 B270	1,2,3-TRICHLOROBENZENE 49 Date 3326B, SB4-2.5' Analyte ****SEMI VOLATILES (SOIL) N-NITROSODIMETHYLAMINE	87-61-6 Analyzed 06/01/94 CAS No.	Date S Time S MDL ——— 1000	8.0 ug/Ke Sampled 05/24/94 Sampled 15:00 Result Unit ************* ug/Ke Below MDL ug/Ke Below MDL ug/Ke
Sample I Sample I Sample I Sofo18 Sofo18 Sofo18	D AA073 Description Method 8270 8270 8270	1,2,3-TRICHLOROBENZENE 49 Date 3326B, SB4-2.5' Analyte ****SEMI VOLATILES (SOIL) N-NITROSODIMETHYLAMINE ANILINE	87-61-6 Analyzed 06/01/94 CAS No. 62-75-9 62-53-3	Date S Time S MDL 1000 1000	8.0 ug/Ke Sampled 05/24/94 Sampled 15:00 Result Unit ***********************************
Sample I Sample I Sample I Social Soc	8260 D AA073 Description Method 8270 8270 8270 8270	1,2,3-TRICHLOROBENZENE 49 Date 3326B, SB4-2.5' Analyte *****SEMI VOLATILES (SOIL) N-NITROSODIMETHYLAMINE ANILINE PHENOL	87-61-6 Analyzed 06/01/94 CAS No. 62-75-9 62-53-3 108-95-2	Date S Time S MDL 1000 1000 1000 1000 1000	8.0 ug/Ko Sampled 05/24/94 Sampled 15:00 Result Unit ************* ug/Ko Below MDL ug/Ko
Sample I Sample I Sample I Sofo18 Sofo18 Sofo18 Sofo18 Sofo18 Sofo18	8260 D AA073 Description Method 8270 8270 8270 8270 8270	1,2,3-TRICHLOROBENZENE 49 Date 3326B, SB4-2.5' Analyte ****SEMI VOLATILES (SOIL) N-NITROSODIMETHYLAMINE ANILINE PHENOL BIS(2-CHLOROETHYL) ETHER	87-61-6 Analyzed 06/01/94 CAS No. 62-75-9 62-53-3 108-95-2 111-44-1	Date S Time S MDL 1000 1000 1000 1000 1000	8.0 ug/Ko Sampled 05/24/94 Sampled 15:00 Result Unit ***********************************
Sample I Sample I Sample I Sofo18 Sofo18 Sofo18 Sofo18 Sofo18 Sofo18	8260 D AA073 Description Method 8270 8270 8270 8270 8270 8270	1,2,3-TRICHLOROBENZENE 49 Date 3326B, SB4-2.5' Analyte *****SEMI VOLATILES (SOIL) N-NITROSODIMETHYLAMINE ANILINE PHENOL BIS(2-CHLOROETHYL) ETHER 2-CHLOROPHENOL	87-61-6 Analyzed 06/01/94 CAS No. ***** 62-75-9 62-53-3 108-95-2 111-44-1 95-57-8 541-73-1 106-46-7	Date S Time S MDL 1000 1000 1000 1000 1000	8.0 ug/Ko Sampled 05/24/94 Sampled 15:00 Result Unit ************* ug/Ko Below MDL ug/Ko
Sample I Sample I Sample I Sofo18 506018 506018 506018 506018 506018	8260 D AA073 Description Method 8270 8270 8270 8270 8270 8270	1,2,3-TRICHLOROBENZENE Date 3326B, SB4-2.5' Analyte *****SEMI VOLATILES (SOIL) N-NITROSODIMETHYLAMINE ANILINE PHENOL BIS(2-CHLOROETHYL) ETHER 2-CHLOROPHENOL 1,3-DICHLOROBENZENE	87-61-6 Analyzed 06/01/94 CAS No. 62-75-9 62-53-3 108-95-2 111-44-1 95-57-8 541-73-1 106-46-7 100-51-6	Date S Time S MDL 1000 1000 1000 1000 1000 1000	8.0 ug/Ke Sampled 05/24/94 Sampled 15:00 Result Unit ************* ug/Ke Below MDL ug/Ke
Sample I Sample I Sample I Sample I Socol8 Socol8 Socol8 Socol8 Socol8 Socol8 Socol8 Socol8 Socol8 Socol8 Socol8	8260 D AA073 Description Method 8270 8270 8270 8270 8270 8270 8270 8270	1,2,3-TRICHLOROBENZENE 49 Date 3326B, SB4-2.5' Analyte *****SEMI VOLATILES (SOIL) N-NITROSODIMETHYLAMINE ANILINE PHENOL BIS(2-CHLOROETHYL) ETHER 2-CHLOROPHENOL 1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE BENZYL ALCOHOL 1,2-DICHLOROBENZENE	87-61-6 Analyzed 06/01/94 CAS No. 62-75-9 62-53-3 108-95-2 111-44-1 95-57-8 541-73-1 106-46-7 100-51-6 95-50-1	Date S Time S MDL 1000 1000 1000 1000 1000 1000 100	8.0 ug/Ke Sampled 05/24/94 Sampled 15:00 Result Unit ***********************************
Sample I Sample I Sample I Sample I Socol8 Socol8 Socol8 Socol8 Socol8 Socol8 Socol8 Socol8 Socol8 Socol8 Socol8 Socol8	8260 D AA073 Description Method 8270 8270 8270 8270 8270 8270 8270 8270	1,2,3-TRICHLOROBENZENE 49 Date 3326B, SB4-2.5' Analyte *****SEMI VOLATILES (SOIL) N-NITROSODIMETHYLAMINE ANILINE PHENOL BIS(2-CHLOROETHYL) ETHER 2-CHLOROPHENOL 1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE BENZYL ALCOHOL 1,2-DICHLOROBENZENE BIS(2-CHLOROISOPROPYL)ETHE	87-61-6 Analyzed 06/01/94 CAS No. 62-75-9 62-53-3 108-95-2 111-44-1 95-57-8 541-73-1 106-46-7 100-51-6 95-50-1 ER 108-60-1	Date S Time S MDL 1000 1000 1000 1000 1000 1000 100	8.0 ug/Ke Sampled 05/24/94 Sampled 15:00 Result Unit ***********************************
Sample I Sample I Sample I Sample I Sample I Socol8 Socol8 Socol8 Socol8 Socol8 Socol8 Socol8 Socol8 Socol8 Socol8 Socol8 Socol8 Socol8 Socol8 Socol8	8260 D AA073 Description Method 8270 8270 8270 8270 8270 8270 8270 8270	1,2,3-TRICHLOROBENZENE 49 Date 3326B, SB4-2.5' Analyte *****SEMI VOLATILES (SOIL) N-NITROSODIMETHYLAMINE ANILINE PHENOL BIS(2-CHLOROETHYL) ETHER 2-CHLOROPHENOL 1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE BENZYL ALCOHOL 1,2-DICHLOROBENZENE BIS(2-CHLOROISOPROPYL)ETHE 2-METHYLPHENOL	87-61-6 Analyzed 06/01/94 CAS No. 62-75-9 62-53-3 108-95-2 111-44-1 95-57-8 541-73-1 106-46-7 100-51-6 95-50-1 ER 108-60-1 95-48-7	Date S Time S MDL 1000 1000 1000 1000 1000 1000 100	8.0 ug/Ke Sampled 05/24/94 Sampled 15:00 Result Unit ************* ug/Ke Below MDL ug/Ke
Sample I Sample I Sample I Sample I Sample I Socol8	8260 D AA073 Description Method 8270 8270 8270 8270 8270 8270 8270 8270	1,2,3-TRICHLOROBENZENE 49 Date 3326B, SB4-2.5' Analyte *****SEMI VOLATILES (SOIL) N-NITROSODIMETHYLAMINE ANILINE PHENOL BIS(2-CHLOROETHYL) ETHER 2-CHLOROPHENOL 1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE BENZYL ALCOHOL 1,2-DICHLOROBENZENE BIS(2-CHLOROISOPROPYL)ETHE 2-METHYLPHENOL 4-METHYLPHENOL	87-61-6 Analyzed 06/01/94 CAS No. 62-75-9 62-53-3 108-95-2 111-44-1 95-57-8 541-73-1 106-46-7 100-51-6 95-50-1 ER 108-60-1 95-48-7 106-44-5	Date S Time S MDL 1000 1000 1000 1000 1000 1000 100	8.0 ug/Ke Sampled 05/24/94 Sampled 15:00 Result Unit ************* ug/Ke Below MDL ug/Ke
Sample I Sample I Sample I Sample I Sample I Socol8	8260 D AA073 Description Method 8270 8270 8270 8270 8270 8270 8270 8270	1,2,3-TRICHLOROBENZENE 3326B, SB4-2.5' Analyte *****SEMI VOLATILES (SOIL) N-NITROSODIMETHYLAMINE ANILINE PHENOL BIS(2-CHLOROETHYL) ETHER 2-CHLOROPHENOL 1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE BENZYL ALCOHOL 1,2-DICHLOROBENZENE BIS(2-CHLOROISOPROPYL)ETHE BIS(2-CHLOROISOPROPYL)ETHE 2-METHYLPHENOL 4-METHYLPHENOL N-NITROSO-DI-N-PROPYLAMINE	87-61-6 Analyzed 06/01/94 CAS No. ***** 62-75-9 62-53-3 108-95-2 111-44-1 95-57-8 541-73-1 106-46-7 100-51-6 95-50-1 ER 108-60-1 95-48-7 106-44-5 E 621-64-7	Date S Time S MDL 1000 1000 1000 1000 1000 1000 100	8.0 ug/Ke Sampled 05/24/94 Sampled 15:00 Result Unit ************* ug/Ke Below MDL ug/Ke
Sample I Sample I Sample I Sample I Sample I Socol8	8260 D AA073 Description Method 8270 8270 8270 8270 8270 8270 8270 8270	1,2,3-TRICHLOROBENZENE 3326B, SB4-2.5' Analyte *****SEMI VOLATILES (SOIL) N-NITROSODIMETHYLAMINE ANILINE PHENOL BIS(2-CHLOROETHYL) ETHER 2-CHLOROPHENOL 1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE BENZYL ALCOHOL 1,2-DICHLOROBENZENE BIS(2-CHLOROISOPROPYL)ETHE 2-METHYLPHENOL 4-METHYLPHENOL N-NITROSO-DI-N-PROPYLAMINE HEXACHLOROETHANE	87-61-6 Analyzed 06/01/94 CAS No. 62-75-9 62-53-3 108-95-2 111-44-1 95-57-8 541-73-1 106-46-7 100-51-6 95-50-1 ER 108-60-1 95-48-7 106-44-5 621-64-7 67-72-1	Date S Time S MDL 	8.0 ug/Ke Sampled 05/24/94 Sampled 15:00 Result Unit ************* ug/Ke Below MDL ug/Ke
Somple I Sample I Sample I Sample I Somple I Som	8260 D AA073 Description Method 8270 8270 8270 8270 8270 8270 8270 8270	Date 3326B, SB4-2.5' Analyte *****SEMI VOLATILES (SOIL) N-NITROSODIMETHYLAMINE ANILINE PHENOL BIS(2-CHLOROETHYL) ETHER 2-CHLOROPHENOL 1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE BENZYL ALCOHOL 1,2-DICHLOROBENZENE BIS(2-CHLOROISOPROPYL)ETHE 2-METHYLPHENOL 4-METHYLPHENOL N-NITROSO-DI-N-PROPYLAMINE HEXACHLOROETHANE NITROBENZENE	87-61-6 Analyzed 06/01/94 CAS No. 62-75-9 62-53-3 108-95-2 111-44-1 95-57-8 541-73-1 106-46-7 100-51-6 95-50-1 ER 108-60-1 95-48-7 106-44-5 621-64-7 67-72-1	Date S Time S MDL 	8.0 ug/Kg Sampled 05/24/94 Sampled 15:00 Result Unit ***********************************
Sample I Sample I Sample I Sample I Sample I Socols	8260 D AA073 Description Method 8270 8270 8270 8270 8270 8270 8270 8270	Date 3326B, SB4-2.5' Analyte *****SEMI VOLATILES (SOIL) N-NITROSODIMETHYLAMINE ANILINE PHENOL BIS(2-CHLOROETHYL) ETHER 2-CHLOROPHENOL 1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE BENZYL ALCOHOL 1,2-DICHLOROBENZENE BIS(2-CHLOROISOPROPYL)ETHE 2-METHYLPHENOL 4-METHYLPHENOL N-NITROSO-DI-N-PROPYLAMINE HEXACHLOROETHANE NITROBENZENE ISOPHORONE	87-61-6 Analyzed 06/01/94 CAS No. 62-75-9 62-53-3 108-95-2 111-44-1 95-57-8 541-73-1 106-46-7 100-51-6 95-50-1 ER 108-60-1 95-48-7 106-44-5 E 621-64-7 67-72-1 98-95-3 78-59-1	Date S Time S MDL 	8.0 ug/Kg Sampled 05/24/94 Sampled 15:00 Result Unit ***********************************
Sample I Sample I Sam	8260 D AA073 Description Method 8270 8270 8270 8270 8270 8270 8270 8270	Date 3326B, SB4-2.5' Analyte *****SEMI VOLATILES (SOIL) N-NITROSODIMETHYLAMINE ANILINE PHENOL BIS(2-CHLOROETHYL) ETHER 2-CHLOROPHENOL 1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE BENZYL ALCOHOL 1,2-DICHLOROBENZENE BIS(2-CHLOROISOPROPYL)ETHE 2-METHYLPHENOL 4-METHYLPHENOL N-NITROSO-DI-N-PROPYLAMINE HEXACHLOROETHANE NITROBENZENE	87-61-6 Analyzed 06/01/94 CAS No. 62-75-9 62-53-3 108-95-2 111-44-1 95-57-8 541-73-1 106-46-7 100-51-6 95-50-1 ER 108-60-1 95-48-7 106-44-5 621-64-7 67-72-1 98-95-3 78-59-1 88-75-5	Date S Time S MDL 	8.0 ug/Kg Sampled 05/24/94 Sampled 15:00 Result Unit ***********************************

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Sample ID AA07349	Date Analyzed	06/01/94	Date Sampled	05/24/94
Sample Description 3326B, SB4-2.5'			Time Sampled	15:00

Test Code	Method	Analyte	CAS No.	MDL	Result Unit
\$06018	8270	2,4-DIMETHYLPHENOL	105-67-9	1000	Below MDL ug/Kg
\$06018	8270	BIS(-2-CHLOROETHOXY)METHANE	111-91-1	1000	Below MDL ug/Kg
\$06018	8270	2,4-DICHLOROPHENOL	120-83-2	1000	Below MDL ug/Kg
\$06018	8270	1,2,4-TRICHLOROBENZENE	120-82-1	1000	Below MDL ug/Kg
\$06018	8270	BENZOIC ACID	65-85-0	5000	Below MDL ug/Kg
\$06018	8270	NAPHTHALENE	91-20-3	1000	Below MDL ug/Kg
\$06018	8270	4-CHLOROANILINE	106-47-8	1000	Below MDL ug/Kg
\$06018	8270	HEXACHLOROBUTADIENE	87-68-3	1000	Below MDL ug/Kg
\$06018	8270	4-CHLORO-3-METHYLPHENOL	59-50-7	2000	Below MDL ug/Kg
\$06018	8270	2-METHYLNAPHTHALENE	91-57-6	1000	Below MDL ug/Kg
\$06018	8270	HEXACHLOROCYCLOPENTADIENE	77-47-4	1000	Below MDL ug/Kg
\$06018	8270	2,4,6-TRICHLOROPHENOL	88-06-2	1000	Below MDL ug/Kg
\$06018	8270	2,4,5-TRICHLOROPHENOL	95-95-4	1000	Below MDL ug/Kg
\$06018	8270	2-CHLORONAPHTHALENE	91-58-7	1000	Below MDL ug/Kg
\$06018	8270	2-NITROANILINE	88-74-4	1000	Below MDL ug/Rg
\$06018	8270	DIMETHYL PHTHALATE	131-11-3	1000	Below MDL ug/Kg
\$06018	8270	ACENAPHTHYLENE	208-96-8	1000	1300 ug/Kg
\$06018	8270	2,6-DINITROTOLUENE	606-20-2	1000	Below MDL ug/Kg
\$06018	8270	3-NITROANILINE	99-09-2	1000	Below MDL ug/Kg
\$06018	8270	ACENAPHTHENE	83-32-9	1000	Below MDL ug/Kg
\$06018	8270	2,4-DINITROPHENOL	51-28-5	5000	Below MDL ug/Kg
\$06018	8270	4-NITROPHENOL	100-02-7	5000	Below MDL ug/Kg
\$06018	8270	DIBENZOFURAN	132-64-9	1000	Below MDL ug/Kg
\$06018	8270	2,4-DINITROTOLUENE	121-14-2	1000	Below MDL ug/Kg
\$06018	8270	DIETHYLPHTHALATE	84-66-2	1000	Below MDL ug/Kg
\$06018	8270	4-CHLOROPHENYL-PHENYL ETHER	7005-72-3	1000	Below MDL ug/Kg
\$06018	8270	FLUORENE	86-73-7	1000	Below MDL ug/Kg
\$06018	8270	4-NITROANILINE	100-01-6	1000	Below MDL ug/Kg
\$06018	8270	4,6-DINITRO-2-METHYLPHENOL	534-52-1	5000	Below MDL ug/Kg
\$06018.	8270	N-NITROSODIPHENYLAMINE	86-30-6	1000	Below MDL ug/Kg
\$06018	8270	4-BROMOPHENYL-PHENYL ETHER	101-55-3	1000	Below MDL ug/Kg
\$06018	8270	HEXACHLOROBENZENE	118-74-1	1000	Below MDL ug/Kg
\$06018	8270	PENTACHLOROPHENOL	87-86-5	5000	Below MDL ug/Kg
\$06018	8270	PHENANTHRENE	85-01-8	1000	6530 ug/Kg
\$06018	8270	ANTHRACENE	120-12-7	1000	2450 ug/Kg
\$06018	8270	DI-N-BUTYLPHTHALATE	84-74-2	1000	Below MDL ug/Kg
\$06018	8270	FLUORANTHENE	206-44-0	1000	16200 ug/Kg
\$06018	8270	BENZIDINE	92-87-5	7999	Below MDL ug/Kg
\$06018	8270	PYRENE	129-00-0	1000	23200 ug/Kg
\$06018	8270	BUTYLBENZYLPHTHALATE	85-68-7	1000	Below MDL ug/Kg
\$06018	8270	3,3'-DICHLOROBENZIDINE	91-94-1	1000 1 0 00	Below MDL ug/Kg 16100 ug/Kg
\$06018	8270	BENZO(A)ANTHRACENE	56-55-3	1000	Below MDL ug/Kg
\$06018	8270	BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	1000	11900 ug/Kg
\$06018	8270	CHRYSENE	218-01-9 117-84-0	1000	Below MDL ug/Kg
\$06018	8270	DI-N-OCTYL PHTHALATE	205-99-2	1000	16500 ug/Kg
\$06018	8270	BENZO(B)FLUORANTHENE	207-08-9	1000	9260 ug/Kg
\$06018	8270	BENZO(K)FLUORANTHENE	50-32-8	1000	13500 ug/Kg
\$06018	8270	BENZO(A)PYRENE	193-39-5	1000	13500 ug/kg 11800 ug/kg
\$06018	8270	INDENO(1,2,3-CD)PYRENE DIBENZO(A,H)ANTHRACENE	53-70-3	1000	5450 ug/Kg
\$06018 \$06018	8270 8270	BENZO(G, H, I) PERYLENE	191-24-2	1000	8500 ug/Kg
\$08009	8270 8015	****TPH 8015 MOD (SOIL)***		T	****** mg/Kg
\$08009	8015	GASOLINE (SOIL)	'FAXED	10	Below MDL mg/Kg
\$08009	8015	KEROSENE		10	Below MDL mg/Kg
+ 20003	~~~		JUN 03 1994		<u></u>

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Sample ID AA07349 Date Analyzed 06/01/94 Date Sampled 05/24/94
Sample Description 3326B, SB4-2.5' Time Sampled 15:00

Test Code	Method	Analyte	CAS No.	MDL.	Result	Unit
\$08009	8015	DIESEL		10	 Below MDI	. ma/Ka
\$08025	8260	***VOLATILES (GC/MS) (SOIL)**	t u		*****	
\$08025	8260	DICHLORODIFLUOROMETHANE	75-71-8	10.0	Below MD	
\$08025	8260	CHLOROMETHANE	74-87-3	10.0	Below MDI	
\$08025	8260	VINYL CHLORIDE	75-01-4	10.0	Below MDI	
\$08025	8260	BROMOMETHANE	74-83-9	10.0	Below MDI	
\$08025	8260	CHLOROETHANE	75-00-3	5.0	Below MDI	
\$08025	8260	TRICHLOROFLUOROMETHANE	75-69-4	5.0	Below MDI	
\$08025	8260	1,1-DICHLOROETHENE	75-35-4	5.0	Below MDI	• -
\$08025	8260	METHYLENE CHLORIDE	75-09-2	10.0		5 ug/Kg
\$08025	8260	CARBON DISULFIDE	75-15-0	5.0	Below MDI	
\$08025	8260	ACRYLONITRILE	107-13-1	5.0	Below MDI	
\$08025	8260	TRANS-1,2-DICHLOROETHENE	156-60-5	5.0	Below MD	
\$08025	8260	1,1-DICHLOROETHANE	75-34-3	5.0	Below MD	_
\$08025	8260	2,2-DICHLOROPROPANE	594-20-7	5.0	Below MD	
\$08025	8260	CIS-1,2-DICHLOROETHENE	156-59-2	5.0		6 ug/Kg
\$08025	8260	CHLOROFORM	67-66-3	5.0	Below MD	
\$08025	8260	BROMOCHLOROMETHANE	74-97-5	5.0	Below MD	
\$08025	8260	1,1,1-TRICHLOROETHAND	71-55-6	5.0	Below MD	
\$08025	8260		ر—∧ادده ده د	5.0	Below MD	
\$08025	8260		[25] 56-23-5	5.0	Below MD	
\$08025	8260	1,2-DICHLOROETHANE	106-06-2	5.0	Below MD	
\$08025	8260	DENTERE 1!	71-43-2	5.0		l ug/Kg
\$08025	8260	TRICHLOROETHENE	79-01-6	250.0		0 ug/Kg
\$08025	8260	י אַ	78-87-5	5.0	Below MD	
\$08025	8260	BROMODICHLOROMETHANE	[2] 75-27-4	5.0	Below MD	
\$08025	8260	DIBROMOMETHANE	[7] 74_05_3	5.0	Below MD	
\$08025	8260	4-METHYL-2-PENTANONE	106-10-1	10.0	Below MD	
\$08025	8260	2-HEXANONE	^J 591-78-6	10.0	Below MD	
\$08025	8260	CIS-1,3-DICHLOROPROPENE	10061-01-5	5.0	Below MD	-
\$08025	8260	TOLUENE	108-88-3	5.0		0 ug/Kg
\$08025	8260	TRANS-1,3-DICHLOROPROPENE	10061-02-6	5.0	Below MD	
\$08025	8260	1,1,2-TRICHLOROETHANE	79-00-5	5.0		0 ug/Kg
\$08025	8260	1,3-DICHLOROPROPANE	142-28-9	5.0	Below MD	Lug/Kg
\$08025	8260	TETRACHLOROETHENE	127-18-4	5.0	24	0 ug/Kg
\$08025	8260	CHLORODIBROMOMETHANE	124-48-1	5.0	Below MD	
\$08025	8260	1,2-DIBROMOETHANE	106-93-4	5.0	Below MD	Lug/Kg
\$08025	8260	CHLOROBENZENE	108-90-7	5.0	Below MD	L ug/Kg
\$08025	8260	ETHYLBENZENE	100-41-4	5.0	Below MD	Lug/Kg
\$08025	8260	1,1,1,2-TETRACHLOROETHANE	630-20-6	5.0	Below MD	L ug/Kg
\$08025	8260	XYLENE (TOTAL)	1330-20-7	5.0	1	3 ug/Kg
\$08025	8260	STYRENE	100-42-5	5.0	Below MD	L ug/Kg
\$08025	·8260	ISOPROPYLBENZENE	98-82-8	5.0	Below MD	Lug/Kg
\$08025	8260	BROMOFORM	75-25-2	5.0	Below MD	L ug/Kg
\$08025	8260	1,1,2,2-TETRACHLOROETHANE	79-34-5	5.0	Below MD	L ug/Kg
\$08025	8260	1,2,3-TRICHLOROPROPANE	96-18-4	5.0	Below MD	L ug/Kg
\$08025	8260	N-PROPYLBENZENE	103-65-1	5.0	Below MD	_
\$08025	8260	BROMOBENZENE	108-86-1	5.0	Below MD	L ug/Kg
\$08025	8260	1,3,5-TRIMETHYLBENZENE	108-67-8	5.0	Below MD	L ug/Kg
\$08025	8260	2-CHLOROTOLUENE .	95-49-8	5.0	Below MD	
\$08025	8260	4-CHLOROTOLUENE	106-43-4	5.0	Below MD	L ug/Kg
\$08025	8260	TERT-BUTYLBENZENE	98-06-6	5.0	Below MD	_
\$08025	8260	1,2,4-TRIMETHYLBENZENE	95-63-6	5.0	Below MD	
\$08025	8260	SEC-BUTYLBENZENE	135-98-8	5.0	Below MD	L ug/Kg

-	D AA073	•	yzed 06/01/94		ampled 05/24/94 Sampled 15:00
Sample D	escription	3326B, SB4-2.5'	•	·	Sampled 15:00
est Code	Method	Analyte	CAS No.	MDL	Result Unit
08025	8260	P-ISOPROPYLTOLUENE -	99-87-6	5.0	Below MDL ug/K
08025	8260	1,3-DICHLOROBENZENE	541-73-1	5.0	Below MDL ug/K
08025	8260	1,4-DICHLOROBENZENE	106-46-7	5.0	Below MDL ug/K
08025	8260	N-BUTYLBENZENE	104-51-8	5.0	Below MDL ug/K
08025	8260	1,2-DICHLOROBENZENE	95-50-1	5.0	Below MDL ug/K
08025	8260	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	5.0	Below MDL ug/K
08025	8260	1,2,4-TRICHLOROBENZENE	102-82-1	5.0	5.0 ug/K
08025	8260	HEXACHLOROBUTADIENE	87-68-3	5.0	Below MDL ug/K
08025	8260	NAPHTHALENE	91-20-3	5.0	81 ug/K
08025	8260	1,2,3-TRICHLOROBENZENE	87-61-6	5.0	7.0 ug/K
Sample I	D AA073	50 Date Anal	vzed 05/27/94	Date S	Sampled 05/25/94
•		3326B, SB2-3.0'	3200 03/2//51		Sampled 15:30
est Code	_	Analyte	CAS No.	MDL	Result Unit
06018	8270	*****SEMI VOLATILES (SOIL)***	**		******* ug/K
	8270	N-NITROSODIMETHYLAMINE	62-75-9	1000	Below MDL ug/K
06018			62-53-3	1000	Below MDL ug/K
06018	8270	ANILINE PHENOL	108-95-2	1000	Below MDL ug/E
06018	8270		111-44-1	1000	Below MDL ug/
06018	8270	BIS(2-CHLOROETHYL) ETHER	95-57-8	1000	Below MDL ug/I
06018	8270	2-CHLOROPHENOL	541-73-1	1000	Below MDL ug/I
06018	8270	1,3-DICHLOROBENZENE	106-46-7	1000	Below MDL ug/1
06018	8270	1,4-DICHLOROBENZENE	100-40-7	1000	Below MDL ug/I
06018	8270	BENZYL ALCOHOL	95-50-1	1000	Below MDL ug/I
06018	8270	1,2-DICHLOROBENZENE		1000	-
06018	8270	BIS(2-CHLOROISOPROPYL)ETHER	108-60-1 95-48-7	1000	Below MDL ug/I
06018	8270	2-METHYLPHENOL		1000	Below MDL ug/I Below MDL ug/I
06018	8270	4-METHYLPHENOL	106-44-5		-
06018	8270	N-NITROSO-DI-N-PROPYEMMENT	72-1	1000	Below MDL ug/
06018	8270	_		1000	Below MDL ug/1
06018	8270	NITROBENZENE	98-95-3	1000	Below MDL ug/1
06018	8270	ISOPHORONE JUN 0 3 19	194 78-59-1	1000	Below MDL ug/1
06018	8270	2-NITROPHENOL	88-75-5	2000	Below MDL ug/1
06018	8270	2,4-DIMETHYLPHENOL	105-67-9	1000	Below MDL ug/1
06018	8270	BIS(-2-CHLOROETHOXY)METHANE	111 <u>-</u> 91-1	1000	Below MDL ug/1
06018	8270	2,4-DICHLOROPHENOL	120-83-2	1000	Below MDL ug/
06018	8270	1,2,4-TRICHLOROBENZENE	120-82-1	1000	Below MDL ug/
06018	8270	BENZOIC ACID	65-85-0	5000	Below MDL ug/
06018	8270	NAPHTHALENE	91-20-3	1000	Below MDL ug/
06018	8270	4-CHLOROANILINE	106-47-8	1000	Below MDL ug/
06018	8270	HEXACHLOROBUTADIENE	87-68-3	1000	Below MDL ug/
06018	8270	4-CHLORO-3-METHYLPHENOL	59-50-7	2000	Below MDL ug/
06018	8270	2-METHYLNAPHTHALENE	91-57-6	1000	Below MDL ug/
06018	8270	HEXACHLOROCYCLOPENTADIENE	77-47-4	1000	Below MDL ug/
06018	8270	2,4,6-TRICHLOROPHENOL	88-06-2	1000	Below MDL ug/
	8270	2,4,5-TRICHLOROPHENOL	95-95-4	1000	Below MDL ug/
06018		2-CHLORONAPHTHALENE	91-58-7	1000	Below MDL ug/
	82/0				_
06018	8270 8270	2-NITROANILINE	88-74-4	1000.	Below MDL ug/
06018 06018 06018	8270	2-NITROANILINE DIMETHYL PHTHALATE		1000 [.] 1000	-
06018		2-NITROANILINE DIMETHYL PHTHALATE ACENAPHTHYLENE	88-74-4 131-11-3 208-96-8		Below MDL ug/ Below MDL ug/ Below MDL ug/

Sample ID AA07350 Date Analyzed 05/27/94 Date Sampled 05/25/94
Sample Description 3326B, SB2-3.0' Time Sampled 15:30

оашріс 1	reset ipaos	3320B; BB2-3.0			•
Test Code	Method	Analyte	CAS No.	MDL	Result Unit
\$06018	8270	3-NITROANILINE	99-09-2	1000	Below MDL ug/Kg
\$06018	8270	ACENAPHTHENE	83-32-9	1000	Below MDL ug/Kg
\$06018	8270	2,4-DINITROPHENOL	51-28-5	5000	Below MDL ug/Kg
\$06018	8270	4-NITROPHENOL	100-02-7	5000	Below MDL ug/Kg
\$06018	8270	DIBENZOFURAN	132-64-9	1000	Below MDL ug/Kg
\$06018	8270	2,4-DINITROTOLUENE	121-14-2	1000	Below MDL ug/Kg
\$06018	8270	DIETHYLPHTHALATE	84-66-2	1000	Below MDL ug/Kg
\$06018	8270	4-CHLOROPHENYL-PHENYL ETHER	7005-72-3	1000	Below MDL ug/Kg
\$06018	8270	FLUORENE	86-73-7	1000	Below MDL ug/Kg
\$06018	8270	4-NITROANILINE	100-01-6	1000	Below MDL ug/Kg
\$06018	8270	4,6-dinitro-2-methylphenol	534-52-1	5000	Below MDL ug/Kg
\$06018	8270	N-NITROSODIPHENYLAMINE	86-30-6	1000	Below MDL ug/Kg
\$06018	8270	4-bromophenyl-phenyl #ETHER	3-55-10لإم	1000	Below MDL ug/Kg
\$06018	8270	HEXACHLOROBENZENE PENTACHLOROPHENOL	25][18-74-1	1000	Below MDL ug/Kg
\$06018	8270	PHENANTHRENE	J>1β7-86-5	5000	Below MDL ug/Kg
\$06018	8270	PHENANTHRENE : Z	B5-01-8	1000	Below MDL ug/Kg
\$06018	8270	ANTHRACENE C	S 20-12-7	1000	Below MDL ug/Kg
\$06018	8270	DI-N-BUTYLPHTHALATE	M34-74-2	1000	Below MDL ug/Kg
\$06018	8270	FLUORANTHENE BENZIDINE	[1] [1] [2] [2] [3] [4] [6]	1000	Below MDL ug/Kg
\$06018	8270	BENZIDINE : \$\Pi\$	η—η»2-0/-3	7999	Below MDL ug/Kg
\$06018	8270	PYRENE	□ 129-00-0	1000	Below MDL ug/Kg
\$06018	8270	BUTYLBENZYLPHTHALATE'	85-68-7	1000	Below MDL ug/Kg
\$06018	8270	3,3'-DICHLOROBENZIDINE	91-94-1	1000	Below MDL ug/Kg
\$06018	8270	BENZO(A)ANTHRACENE	56-55-3	1000	Below MDL ug/Kg
\$06018	8270	BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	1000	Below MDL ug/Kg
\$06018	8270	CHRYSENE	218-01-9	1000	Below MDL ug/Kg
\$06018	8270	DI-N-OCTYL PHTHALATE	117-84-0	1000	Below MDL ug/Kg
\$06018	8270	BENZO(B)FLUORANTHENE	205-99-2	1000	Below MDL ug/Kg
\$06018	8270	BENZO(K)FLUORANTHENE	207-08-9	1000	Below MDL ug/Kg
\$06018	8270	BENZO(A) PYRENE	50-32-8	1000	Below MDL ug/Kg
\$06018	8270	INDENO(1,2,3-CD)PYRENE	193-39-5	1000	Below MDL ug/Kg
\$06018	8270	DIBENZO(A, H) ANTHRACENE	53-70-3	1000	Below MDL ug/Kg
\$06018	8270	BENZO(G, H, I) PERYLENE	191-24-2	1000	Below MDL ug/Kg
\$08009	8015	*****TPH 8015 MOD (SOIL)****	* *		****** mg/Kg
\$08009	8015	GASOLINE		10	Below MDL mg/Kg
\$08009	8015	KEROSENE		10	Below MDL mg/Kg
\$08009	8015	DIESEL		10	Below MDL mg/Kg
\$08025	8260	***VOLATILES (GC/MS) (SOIL)		10.0	******** ug/Kg Below MDL ug/Kg
\$08025	8260	DICHLORODIFLUOROMETHANE	75-71-8	10.0	Below MDL ug/Kg
\$08025	8260	CHLOROMETHANE	74-87-3	10.0	Below MDL ug/Kg
\$08025	8260	VINYL CHLORIDE	75-01-4 74-83-9	10.0	Below MDL ug/Kg
\$08025	8260	BROMOMETHANE	75-00-3	5.0	Below MDL ug/Kg
\$08025	8260	CHLOROETHANE	75-69-4	5.0	Below MDL ug/Kg
\$08025	8260	TRICHLOROFLUOROMETHANE	75-35-4	5.0	Below MDL ug/Kg
\$08025	8260	1,1-DICHLOROETHENE	75-33-4 75-09-2	10.0	14 ug/Kg
\$08025	8260	METHYLENE CHLORIDE	75-15-0	5.0	Below MDL ug/Kg
\$08025	8260	CARBON DISULFIDE ACRYLONITRILE	107-13-1	5.0	Below MDL ug/Kg
\$08025 \$08025	8260 8260	TRANS-1,2-DICHLOROETHENE	156-60-5	5.0	Below MDL ug/Kg
	8260 8260	1,1-DICHLOROETHANE	75-34-3	5.0	Below MDL ug/Kg
\$08025 \$08025	8260 8260	2,2-DICHLOROPROPANE	594-20-7	5.0	Below MDL ug/Kg
\$08025 \$08025		CIS-1,2-DICHLOROETHENE	156-59-2	5.0	Below MDL ug/Kg
\$08025	8260 8260	CHLOROFORM	67-66-3	5.0	Below MDL ug/Kg
\$08025 \$08025		BROMOCHLOROMETHANE	74-97-5	5.0	Below MDL ug/Kg
4000ZD	8260	DAOROCHEOAORE I HARE	14-71-3	2.0	Dezen ind ug/ng

Sample II Sample D	D AA073 Description		: Analyzeid 05/27/94	Date Sa Time Sa	•
•	Method	Analyte	-CAS No	-MDL -	Result Unit
8025	8260	.1,1,1-TRICHLOROETHANE -	71-55-6	— — _{5.0} —	Below MDL ug/Kg
8025	8260	1,1-DICHLOROPROPENE	563-58-6	5.0	Below MDL ug/Kg
8025	8260	CARBON TETRACHLORIDE	56-23-5	5.0	Below MDL ug/Kg
8025	8260	1,2-DICHLOROETHANE	106-06-2	5.0	Below MDL ug/Kg
8025	8260	BENZENE	71-43-2	5.0	Below MDL ug/Kg
8025	8260	TRICHLOROETHENE	79-01-6	5.0	Below MDL ug/Kg
8025	8260	1,2-DICHLOROPROPANE	78-87-5	5.0	Below MDL ug/Kg
8025	8260	BROMODICHLOROMETHANE	75-27-4	5.0	Below MDL ug/Kg
8025	8260	DIBROMOMETHANE	74-95-3	5.0	Below MDL ug/Kg
8025	8260	4-METHYL-2-PENTANONE	106-10-1	10.0	Below MDL ug/Kg
8025	8260	2-HEXANONE	591-78-6	10.0	Below MDL ug/Kg
8025	8260	CIS-1,3-DICHLOROPROPENE	10061-01-5	5.0	Below MDL ug/Kg
8025	8260	TOLUENE	108-88-3	5.0	Below MDL ug/Kg
8025	8260	TRANS-1, 3-DICHLOROPROPENE	10061-02-6	5.0	Below MDL ug/Kg
8025	8260	1,1,2-TRICHLOROETHANE	79-00-5	5.0	Below MDL ug/Kg
8025	8260	1,3-DICHLOROPROPANE	142-28-9	5.0	Below MDL ug/Kg
8025	8260	TETRACHLOROETHENE	127-18-4	5.0	Below MDL ug/Kg
08025	8260	CHLORODIBROMOMETHANE	124-48-1	5.0	Below MDL ug/Kg
8025	8260	1,2-DIBROMOETHANE	106-93-4	5.0	Below MDL ug/Kg
08025	8260	CHLOROBENZENE	108-90-7	5.0	Below MDL ug/Kg
08025	8260	ETHYLBENZENE	100-41-4	5.0	Below MDL ug/Kg
08025	8260	1,1,1,2-TETRACHLOROETHANE	630-20-6	5.0	Below MDL ug/Kg
08025	8260	XYLENE (TOTAL)	1330-20-7	5.0	Below MDL ug/Kg
08025	8260	STYRENE	100-42-5	5.0	Below MDL ug/Kg
08025	8260	ISOPROPYLBENZENE	98-82-8	5.0	Below MDL ug/Kg
08025	8260	BROMOFORM	75+25-2	5.0	Below MDL ug/Kg
08025	8260	1,1,2,2-TETRACHLOROETHANE	79-34-5	5.0	Below MDL ug/Kg
08025	8260	1,2,3-TRICHLOROPROPANE	96-18-4	5.0	Below MDL ug/Kg
08025	8260	N-PROPYLBENZENE	103-65-1	5.0	Below MDL ug/Kg
08025	8260	BROMOBENZENE	108-86-1	5.0	Below MDL ug/Kg
8025	8260	1,3,5-TRIMETHYLBENZENE	108-67-8	5.0	Below MDL ug/Kg
08025	8260	2-CHLOROTOLUENE	95-49-8	5.0	Below MDL ug/Kg
08025	8260	4-CHLOROTOLUENE	106-43-4	5.0	Below MDL ug/Kg
8025	8260	TERT-BUTYLBENZENE	98-06-6	5.0	Below MDL ug/Kg
08025	8260	1,2,4-TRIMETHYLBENZENE	95-63-6	5.0	Below MDL ug/Kg
08025	8260	SEC-BUTYLBENZENE	135-98-8	5.0	Below MDL ug/Kg
08025	8260	P-ISOPROPYLTOLUENE	99-87-6	5.0	Below MDL ug/Kg
08025	B260	1,3-DICHLOROBENZENE	541-73-1	5.0	Below MDL ug/Kg
08025	8260	1,4-DICHLOROBENZENE	106-46-7	5.0	Below MDL ug/Kg
08025	8260	N-BUTYLBENZENE	104-51-8	5.0	Below MDL ug/Kg
08025	8260	1,2-DICHLOROBENZENE	95-50-1	5.0	Below MDL ug/Kg
08025	8260	1,2-DIBROMO-3-CHLOROPROPA		5.0	Below MDL ug/Kg
8025	-8260	1,2,4-TRICHLOROBENZENE	102-82-1	5.0	Below MDL ug/Kg
08025	8260	HEXACHLOROBUTADIENE	87-68-3	5.0	Below MDL ug/Kg
08025	8260	NAPHTHALENE	91-20-3	5.0	Below MDL ug/Kg
08025	8260	1,2,3-TRICHLOROBENZENE	87-61-6	5.0	6.3 ug/Kg
		<u> </u>			<u> </u>

Test Code Method

CAS No.

MDL

Result

Unit

Sample ID AA07351 Date Analyzed 05/27/94

Date Sampled 05/25/94 Time Sampled 14:00

-	escription		03/2///V	Time S	ampled 14:00
Test Code	-	Analyte	CAS No.	MDL	Result Unit
\$06018	8270	-*****SEMI VOLATILES (SOIL)*	***		******* ug/Kg
\$06018	8270	N-NITROSODIMETHYLAMINE	62-75-9	1000	Below MDL ug/Kg
\$06018	8270	ANILINE	62-53-3	1000	Below MDL ug/Kg
\$06018	8270	PHENOL	108-95-2	1000	Below MDL ug/Kg
\$06018	8270	BIS(2-CHLOROETHYL) ETHER	111-44-1	1000	Below MDL ug/Kg
\$06018	8270	2-CHLOROPHENOL	95-57-8	1000	Below MDL ug/Kg
\$06018	8270	1,3-DICHLOROBENZENE	541-73-1	1000	Below MDL ug/Kg
\$06018	8270	1,4-DICHLOROBENZENE	106-46-7	1000	Below MDL ug/Kg
\$06018	8270	BENZYL ALCOHOL	100-51-6	1000	Below MDL ug/Kg
\$06018	8270	1,2-DICHLOROBENZENE	95-50-1	1000	Below MDL ug/Kg
\$06018	8270	BIS(2-CHLOROISOPROPYL)ETHER		1000	Below MDL ug/Kg
\$06018	8270	2-METHYLPHENOL	95-48-7	1000	Below MDL ug/Kg
\$06018	8270	4-methylphenol	106-44-5	1000	Below MDL ug/Kg
\$06018	8270	N-NITROSO-DI-N-PROPYLAMINE	621-64-7	1000	Below MDL ug/Kg
\$06018	8270	HEXACHLOROETHANE	67-72-1	1000	Below MDL ug/Kg
\$06018	8270	NITROBENZENE	98-95-3	1000	Below MDL ug/Kg
\$06018	8270	ISOPHORONE	78-59-1	1000	Below MDL ug/Kg
\$06018	8270	2-NITROPHENOL	88-75-5	2000	Below MDL ug/Kg
\$06018	8270	2,4-DIMETHYLPHENOL	105-67-9	1000	Below MDL ug/Kg
\$06018	8270	BIS(-2-CHLOROETHOXY)METHANE		1000	Below MDL ug/Kg
\$06018	8270	2,4-DICHLOROPHENOL	120-83-2	1000	Below MDL ug/Kg
\$06018	8270	1,2,4-TRICHLOROBENZENE	120-82-1	1000	Below MDL ug/Kg
\$06018	8270	BENZOIC ACID	65-85-0	5000	Below MDL ug/Kg
\$06018	8270	NAPHTHALENE	91-20-3	1000	Below MDL ug/Kg
\$06018	8270	4-CHLOROANILINE	106-47-8	1000	Below MDL ug/Kg
\$06018	8270	HEXACHLOROBUTADIENE	87-68-3	1000	Below MDL ug/Kg
\$06018	8270	4-CHLORO-3-METHYLPHENOL	59-50-7	2000	Below MDL ug/Kg
\$06018	8270	2-methylnaphthalene	91-57-6	1000	Below MDL ug/Kg
\$06018	8270	HEXACHLOROCYCLOPENTADIENE	77-47-4	1000	Below MDL ug/Kg
\$06018	8270	2,4,6-TRICHLOROPHENOL	88-06-2	1000	Below MDL ug/Kg
\$06018	8270	2,4,5-TRICHLOROPHENOL	95-95-4	1000	Below MDL ug/Kg
\$06018	8270	2-CHLORONAPHTHALENE	91-58-7	1000	Below MDL ug/Kg
\$06018	8270	2-NITROANILINE	88-74-4	1000	Below MDL ug/Kg
\$06018	8270	DIWELLIT BULLWITHIE 50	25 131-11-3 208-96-8	1000 1000	Below MDL ug/Kg
\$06018	8270	ACENAPHTHYLENE 2,6-DINITROTOLUENE 2	208-98-8 606-20-2	1000	Below MDL ug/Kg
\$06018	8270		99-09-2	1000	Below MDL ug/Kg Below MDL ug/Kg
\$06018	8270	3-NITROANILINE	83-32-9	1000	Below MDL ug/Kg
\$06018	8270	ACENAPHTHENE 2,4-DINITROPHENOL	i	5000	Below MDL ug/Kg
\$06018	8270	4-NITROPHENOL	[2] 51-28-5 100-02-7	5000	Below MDL ug/Kg
\$06018	8270	DIBENZOFURAN	32-64-9	1000	Below MDL ug/Kg
\$06018	8270	2,4-DINITROTOLUENE	21-14-2	1000	Below MDL ug/Kg
\$06018	8270 8270	DIETHYLPHTHALATE	84-66-2	1000	Below MDL ug/Kg
\$06018	8270	4-CHLOROPHENYL-PHENYL ETHER		1000	Below MDL ug/Kg
\$06018 \$06018	8270 8270	FLUORENE	86-73-7	1000	Below MDL ug/Kg
\$06018	8270	4-NITROANILINE	100-01-6	1000	Below MDL ug/Kg
\$06018	8270	4,6-DINITRO-2-METHYLPHENOL	534-52-1	5000	Below MDL ug/Kg
\$06018	8270	N-NITROSODIPHENYLAMINE	86-30-6	1000	Below MDL ug/Kg
\$06018 \$06018	8270	4-BROMOPHENYL-PHENYL ETHER	101-55-3	1000	Below MDL ug/Kg
\$06018 \$06018	8270 8270	HEXACHLOROBENZENE	118-74-1	1000	Below MDL ug/Kg
\$06018	8270	PENTACHLOROPHENOL	87-86-5	5000	Below MDL ug/Kg
\$06018	8270	PHENANTHRENE	85-01-8	1000	Below MDL ug/Kg
\$06018	8270	ANTHRACENE	120-12-7	1000	Below MDL ug/Kg
\$06018	8270	DI-N-BUTYLPHTHALATE	84-74-2	1000	Below MDL ug/Kg
444410	0270		•		

Sample ID AA07351	Date Analyzed	05/27/94	Date Sampled	05/25/94
Sample Description 3326B, SB5-10'			Time Sampled	14:00

Sample L	reserration.	33208, 383-10	:		•	_
Test Code	Method	Analyte	CAS No.	MDL	Result U	init
\$06018	8270	FLUORANTHENE	206-44-0	1000	Below MDL u	g/Kg
\$06018	8270	BENZIDINE	92-87-5	7999	Below MDL u	g/Kg
\$06018	8270	PYRENE	129-00-0	1000	Below MDL u	g/Kg
\$06018	8270	BUTYLBENZYLPHTHALATE	85-68-7	1000	Below MDL u	g/Kg
\$06018	8270	3,3'-DICHLOROBENZIDINE	91-94-1	1000	Below MDL u	g/Kg
\$06018	8270	BENZO(A)ANTHRACENE	56-55-3	1000	Below MDL u	g/Kg
\$06018	8270	BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	1000	Below MDL u	
\$06018	8270	CHRYSENE	218-01-9	1000	Below MDL u	
\$06018	8270	DI-N-OCTYL PHTHALATE	117-84-0	1000	Below MDL u	
\$06018	8270	BENZO(B)FLUORANTHENE	205-99-2	1000	Below MDL u	_
\$06018	8270	BENZO(K)FLUORANTHENE	207-08-9	1000	Below MDL u	-
\$06018	8270	BENZO(A)PYRENE	50-32-8	1000	Below MDL u	-
\$06018	8270	INDENO(1,2,3-CD)PYRENE	193-39-5	1000	Below MDL u	-
\$06018	8270	DIBENZO(A, H)ANTHRACENE	53-70-3	1000	Below MDL u	
\$06018	8270	BENZO(G,H,I)PERYLENE	191-24-2	1000	Below MDL u	
\$08009	8015	*****TPH 8015 MOD (SOIL)*****			******	-
\$08009	8015	GASOLINE		10	Below MDL m	
\$08009	8015	KEROSENE		10	Below MDL m	-
\$08009	8015	DIESEL		10	Below MDL m	
\$08025	8260	***VOLATILES (GC/MS) (SOIL)**			*******	
\$08025	8260	DICHLORODIFLUOROMETHANE	75-71-8	10.0	Below MDL u	_
\$08025	8260	CHLOROMETHANE	74-87-3	10.0	Below MDL u	_
\$08025	8260	VINYL CHLORIDE	75-01-4	10.0	Below MDL u	_
\$08025	8260	BROMOMETHANE	74-83-9	10.0	Below MDL u	
\$08025	8260	CHLOROETHANE	75-00-3	5.0	Below MDL u	
\$08025	8260	TRICHLOROFLUOROMETHANE	75-69-4	5.0	Below MDL u	
\$08025	8260	1,1-DICHLOROETHENE	75-35-4	5.0	Below MDL u	
\$08025	8260	METHYLENE CHLORIDE	75-09-2	10.0	Below MDL u	-
\$08025	8260	CARBON DISULFIDE	75-15-0	5.0	Below MDL u	
\$08025	8260	ACRYLONITRILE	107-13-1	5.0	Below MDL u	-
\$08025	8260	TRANS-1,2-DICHLOROETHENE	156-60-5	5.0	Below MDL u	
\$08025	8260	1,1-DICHLOROETHANE	75-34-3	5.0	Below MDL u	
\$08025	8260	2,2-DICHLOROPROPANE	594-20-7	5.0	Below MDL u	
\$08025	8260	CIS-1,2-DICHLOROETHENE	156-59-2	5.0	Below MDL u	- , -
\$08025	8260	CHLOROFORM	67-66-3	5.0	Below MDL u	
\$08025	8260	BROMOCHLOROMETHANE	74-97-5	5.0	Below MDL u	
\$08025	8260	1,1,1-TRICHLOROETHAME	71-55-6	5.0	Below MDL u	
\$08025	8260	T'I-DICUPOKONONONEME	200-20-0	5.0	Below MDL u	
\$08025	8260	CHILDON IDIIO		5.0	Below MDL u	
\$08025	8260	1,2-DICHLOROETHANE	106-06-2	5.0	Below MDL u	-
\$08025	8260	BENZENE ; w	71-43-2	5.0	Below MDL v	
\$08025	8260	TRICHLOROETHENE	79-01-6	5.0	Below MDL u	
\$08025	8260	1,2-DICHLOROPROPANE	- Ai	5.0	Below MDL v	
\$08025	8260	BROMODICHLOROMETHANE	75-27-4	5.0	Below MDL v	
\$08025	8260	DIBROMOMETHANE ;	74-95-3	5.0	Below MDL u	-
\$08025	8260	4-METHYL-2-PENTANONE	106-10-1	10.0	Below MDL u	-
\$08025	8260	2-HEXANONE	591-78-6	10.0	Below MDL v	-
\$08025	8260	CIS-1,3-DICHLOROPROPENE	10061-01-5	5.0	Below MDL v	
\$08025	8260	TOLUENE	108-88-3	5.0	Below MDL u	
\$08025	8260	TRANS-1,3-DICHLOROPROPENE	10061-02-6	5.0	Below MDL	
\$08025	8260	1,1,2-TRICHLOROETHANE	79-00-5	5.0	Below MDL	
\$08025	8260	1,3-DICHLOROPROPANE	142-28-9	5.0	Below MDL t	
\$08025	8260	TETRACHLOROETHENE	127-18-4	5.0	Below MDL	
\$08025	8260	CHLORODIBROMOMETHANE	124-48-1	5.0	Below MDL 1	ug/Ng

Sample II	D AA073	51	Date Analyzed	05/27/94	Date San		
Sample D	escription	3326B, SB5-10'			Time San	npled 14:00	
Test Code	Method	Analyte	Ca	AS No.	MDL	Result Unit	
\$08025	8260	1,2-DIBROMOETHANE	10	6-93-4	5.0	Below MDL ug/Kg	
\$08025	8260	CHLOROBENZENE	10	8-90-7	5.0	Below MDL ug/Kg	
\$08025	8260	ETHYLBENZENE	100	-41-4	5.0	Below MDL ug/Kg	
\$08025	8260	1,1,1,2-TETRACHLOROETE		0-20-6.	5.0	Below MDL ug/Kg	
\$08025	8260	XYLENE (TOTAL)		1-20-7	5.0	Below MDL ug/Kg	
\$08025	8260	STYRENE		0-42-5	5.0	Below MDL ug/Kg	
\$08025	8260	ISOPROPYLBENZENE		3-82-8	5.0	Below MDL ug/Kg	
\$08025	8260	BROMOFORM		5-25-2	5.0	Below MDL ug/Kg	
\$08025	8260	1,1,2,2-TETRACHLOROETH		9-34-5	5.0	Below MDL ug/Kg	
\$08025	8260	1,2,3-TRICHLOROPROPANE		06-18-4	5.0	Below MDL ug/Kg	
\$08025	8260	N-PROPYLBENZENE		8-65-1 8-86-1	5.0 5.0	Below MDL ug/Kg	
\$08025	8260	BROMOBENZENE)8-86-1)8-67-8	5.0	Below MDL ug/Kg Below MDL ug/Kg	
\$08025	8260	1,3,5-TRIMETHYLBENZENE		95-49-8	5.0	Below MDL ug/Kg	
\$08025	8260	2-CHLOROTOLUENE		06-43-4	5.0	Below MDL ug/Kg	
\$08025	8260	4-CHLOROTOLUENE TERT-BUTYLBENZENE		98-06-6	5.0	Below MDL ug/Kg	
\$08025 \$08025	8260 8260	1,2,4-TRIMETHYLBENZENI		95-63-6	5.0	Below MDL ug/Kg	
\$08025	8260	SEC-BUTYLBENZENE		35-98-8	5.0	Below MDL ug/Kg	
\$08025	8260	P-ISOPROPYLTOLUENE		9-87-6	5.0	Below MDL ug/Kg	
\$08025	8260	1,3-DICHLOROBENZENE		11-73-1	5.0	Below MDL ug/Kg	
\$08025	8260	1,4-DICHLOROBENZENE		06-46-7	5.0	Below MDL ug/Kg	
\$08025	8260	N-BUTYLBENZENE		04-51-8	5.0	Below MDL ug/Kg	
\$08025	8260	1,2-DICHLOROBENZENE	9	95-50-1	5.0	Below MDL ug/Kg	
\$08025	8260	1,2-DIBROMO-3-CHLOROPI	ROPANE !	96-12-8	5.0	Below MDL ug/Kg	
\$08025	8260	1,2,4-TRICHLOROBENZEN	E 10	02-82-1	5.0	Below MDL ug/Kg	
\$08025	8260	HEXACHLOROBUTADIENE	ŧ	37-68-3	5.0	Below MDL ug/Kg	
\$08025	8260	NAPHTHALENE	•	91-20-3	5.0	Below MDL ug/Kg	
\$08025	8260	1,2,3-TRICHLOROBENZEN	E (37-61-6	5.0	Below MDL ug/Kg	
			<u>.</u>				
Sample I	D AA073	52	Date Analyzed	05/31/94	Date Sai	mpled 05/25/94	
Sample I	Description	3326B, SB6-10'	·		Time Sa	mpled 14:00	
Test Code	Method	Analyte	C.	AS No.	MDL	Result Unit	
\$06018	8270	*****SEMI VOLATILES (******* ug/Kg	
\$06018	8270	N-NITROSODIMETHYLAMIN		2-75-9	1000	Below MDL ug/Kg	
\$06018	8270	ANILINE		2-53-3	1000	Below MDL ug/Kg	
\$06018	8270	PHENOL		8-95-2	1000	Below MDL ug/Kg	
\$06018	8270	BIS(2-CHLOROETHYL) ET		1-44-1	1000	Below MDL ug/Kg	
\$06018	8270	2-CHLOROPHENOL		5-57-8	1000	Below MDL ug/Kg	
\$06018	8270	1,3-DICHLOROBENZENE		1-73-1	1000	Below MDL ug/Kg	
\$06018	8270	1,4-DICHLOROBENZENE		6-46-7	1000 1000	Below MDL ug/Kg	
\$06018	8270	BENZYL ALCOHOL		0-51-6	1000	Below MDL ug/Kg Below MDL ug/Kg	
\$06018	8270	1,2-DICHLOROBENZENE		5-50-1 8-60-1	1000	Below MDL ug/Kg	
\$06018	8270	BIS(2-CHLOROISOPROPYL	•	5-48-7	1000	Below MDL ug/Kg	
\$06018	8270 8270	2-METHYLPHENOL 4-METHYLPHENOL		5-48-7 6-44-5	1000	Below MDL ug/Kg	
\$06018 \$06018	8270 8270	N-NITROSO-DI-N-PROPYL		1-64-7	1000	Below MDL ug/Kg	
\$06018 \$06018	8270 8270	HEXACHLOROETHANE		7-72-1	1000	Below MDL ug/Kg	
\$06018 \$06018	8270			8-95-3	1000	Below MDL ug/Kg	
\$06018	8270	ISOPHORONE ISOPHORONE	/A C J L A J C / 1	8-59-1	1000	Below MDL ug/Kg	
\$06018	8270	2 NITEDODERNOT	. 6	8-75-5	2000	Below MDL ug/Kg	
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Date Sampled 05/31/94 05/25/94 Sample ID AA07352 Date Analyzed Time Sampled 14:00 Sample Description 3326B, SB6-10'

Test Code	Method	Analyte	CAS No.	MDL -	Result	Unit
\$06018	8270	2,4-DIMETHYLPHENOL	105-67-9	1000	Below MDL	ug/Kg
\$06018	8270	BIS(-2-CHLOROETHOXY) METHANE	111-91-1	1000	Below MDL	ug/Kg
\$06018	8270	2,4-DICHLOROPHENOL	120-83-2	1000	Below MDL	ug/Kg
\$06018	8270	1,2,4-TRICHLOROBENZENE	120-82-1	1000	Below MDL	ug/Kg
\$06018	8270	BENZOIC ACID	65-85-0	5000	Below MDL	ug/Kg
\$06018	8270	NAPHTHALENE	91-20-3	1000	Below MDL	ug/Kg
\$06018	8270	4-CHLOROANILINE	106-47-8	1000	Below MDL	ug/Kg
\$06018	8270	HEXACHLOROBUTADIENE	87-68-3	1000	Below MDL	-
\$06018	8270	4-CHLORO-3-METHYLPHENOL	59-50-7	2000	Below MDL	-
\$06018	8270	2-METHYLNAPHTHALENE	91-57-6	1000	Below MDL	
\$06018	8270	HEXACHLOROCYCLOPENTADIENE	77-47-4	1000	Below MDL	
\$06018	8270	2,4,6-TRICHLOROPHENOL	88-06-2	1000	Below MDL	
\$06018	8270	2,4,5-TRICHLOROPHENOL	95-95-4	1000	Below MDL	
\$06018	8270	2-CHLORONAPHTHALENE	91-58-7	1000	Below MDL	_
\$06018	8270	2-NITROANILINE	88-74-4	1000	Below MDL	
\$06018	8270	DIMETHYL PHTHALATE	131-11-3	1000	Below MDL	
\$06018	8270	ACENAPHTHYLENE	208-96-8	1000	Below MDL	
\$06018	8270	2,6-DINITROTOLUENE	606-20-2	1000	Below MDL	
\$06018	8270	3-nitroaniline	99-09-2	1000	Below MDL	
\$06018	8270	ACENAPHTHENE	83-32-9	1000	Below MDL	
\$06018	8270	2,4-DINITROPHENOL	51-28-5	5000	Below MDL	
\$0601B	8270	4-NITROPHENOL	100-02-7	5000	Below MDL	
\$06018	8270	DIBENZOFURAN	132-64-9	1000	Below MDL	
\$06018	8270	2,4-DINITROTOLUENE	121-14-2	1000	Below MDL	
\$06018	8270	DIETHYLPHTHALATE	84-66-2	1000	Below MDL	
\$06018	8270	4-CHLOROPHENYL-PHENYL ETHER	7005-72-3	1000	Below MDL	
\$06018	8270	FLUORENE	86-73-7	1000	Below MDL	
\$06018	8270	4-NITROANILINE	100-01-6	1000	Below MDL	-
\$06018	8270	4,6-DINITRO-2-METHYLPHENOL	534-52-1	5000	Below MDL	
\$06018	8270	N-NITROSODIPHENYLAMINE	86-30-6	1000	Below MDL	
\$06018	8270	4-BROMOPHENYL-PHENYL ETHER	101-55-3	1000	Below MDL	
\$06018	8270	HEXACHLOROBENZENE	118-74-1	1000 5000	Below MDL	-
\$06018	8270	PENTACHLOROPHENOL	87-86-5	1000	Below MDL Below MDL	-
\$06018	8270	PHENANTHRENE	85-01-8 120-12-7	1000	Below MDL	
\$06018	8270	ANTHRACENE	84-74-2	1000	Below MDL	
\$06018	8270	DI-N-BUTYLPHTHALATE	206-44-0	1000	Below MDL	
\$06018	8270	FLUORANTHENE	92-87-5	7999	Below MDL	
\$06018	8270	BENZIDINE	129-00-0	1000	Below MDL	
\$06018	8270	PYRENE BUTYLBENZYLPHTHALATE	85-68-7	1000	Below MDL	
\$06018	8270		91-94-1	1000	Below MDI	
\$06018	8270	3,3'-DICHLOROBENZIDINE	56-55-3	1000	Below MDI	
\$06018	8270	BENZO(A)ANTHRACENE BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	1000	Below MDI	
\$06018	·8270	CHRYSENE	218-01-9	1000	Below MDI	
\$06018	8270	DI-N-OCTYL PHTHALATE	117-84-0	1000	Below MDI	-
\$06018	8270 8270	BENZO(B)FLUORANTHENE	205-99-2	1000	Below MDI	
\$06018 \$06018	8270	BENZO(K)FLUORANTHENE	207-08-9	1000	Below MDI	-
\$06018 \$06018	8270	BENZO(A)PYRENE	50-32-8	1000	Below MDI	
\$06018 \$06018	8270	INDENO(1,2,3-CD)PYRENE	193-39-5	1000	Below MDI	
\$06018	8270	DIBENZO(A, H) ANTHRACENE	53-70-3	. 1000	Below MDI	-
\$06018	8270	BENZO(G, H, I) PERYLENE		1000	Below MDI	-
\$08009	8015	*****TPH 8015 MOD (SOIL)****	·FAXED)	***	-
\$08009	8015	GASOLINE	ادادددد	10	Below MDI	
\$08009	8015	KEROSENE	JUN 03 1994	10	Below MDI	
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Sample ID AA07352 Date Analyzed 05/31/94 Date Sampled 05/25/94
Sample Description 3326B, SB6-10' Time Sampled 14:00

Sample D	escription	3326B, SB6-10'	• -	Time Samples 14	
Test Code	Method	Analyte	CAS No.	MDL	Result Unit
\$08009	8015	DIESEL	•	10	Below MDL mg/Kg
\$08025	8260	***VOLATILES (GC/MS) (SOIL)	***		******* ug/Rg
\$08025	8260	DICHLORODIFLUOROMETHANE	75-71-8	10.0	Below MDL ug/Kg
\$08025	8260	CHLOROMETHANE	74-87-3	10.0	Below MDL ug/Kg
\$08025	8260	VINYL CHLORIDE	75-01-4	10.0	Below MDL ug/Kg
\$08025	8260	BROMOMETHANE	74-83-9	10.0	Below MDL ug/Kg
\$08025	8260	CHLOROETHANE	75-00-3	5.0	Below MDL ug/Kg
\$08025	8260	TRICHLOROFLUOROMETHANE	75-69-4	5.0	Below MDL ug/Kg
\$08025	8260	1,1-DICHLOROETHENE	75-35-4	5.0	Below MDL ug/Kg
\$08025	8260	METHYLENE CHLORIDE	75-09-2	10.0	Below MDL ug/Kg
\$08025	8260	CARBON DISULFIDE	75-15-0	5.0	Below MDL ug/Kg
\$08025	8260	ACRYLONITRILE	107-13-1	5.0	Below MDL ug/Kg
\$08025	8260	TRANS-1,2-DICHLOROETHENE	156-60-5	5.0	Below MDL ug/Kg
\$08025	8260	1,1-DICHLOROETHANE	. 75-34-3	5.0	Below MDL ug/Kg
\$08025	8260	2,2-DICHLOROPROPANE	594-20-7	5.0	Below MDL ug/Kg
\$08025	8260	CIS-1,2-DICHLOROETHENE	156-59-2	5.0	Below MDL ug/Kg
\$08025	8260	CHLOROFORM	67-66-3	5.0	Below MDL ug/Kg
\$08025	8260	BROMOCHLOROMETHANE	74-97-5	5.0	Below MDL ug/Kg
\$08025	8260	1,1,1-TRICHLOROETHANE	71-55-6	5.0	Below MDL ug/Kg
\$08025	8260	1,1-DICHLOROPROPENE	71-55-6 7563-58-6 56-23-5	5.0	Below MDL ug/Kg
\$08025	8260	CARBON TETRACHLORIDE	56-23-5	5.0	Below MDL ug/Kg
\$08025	8260	1,2-DICHLOROETHANE	06-06-2	5.0	Below MDL ug/Kg
\$08025	8260	BENZENE	71-43-2	5.0	Below MDL ug/Kg
\$08025	8260	TRICHLOROETHENE	√3 79-01-6	5.0	9.0 ug/Kg
\$08025	8260	1,2-DICHLOROPROPANE	75-27-4	5.0	Below MDL ug/Kg
\$08025	8260	BROMODICHLOROMETHANE	(-2)75-27-4	5.0	Below MDL ug/Kg
\$08025	8260	DIBROMOMETHANE	(C)\4-22-2	5.0	Below MDL ug/Kg
\$08025	8260	4-METHYL-2-PENTANONE	106-10-1	10.0	Below MDL ug/Kg
\$08025	8260	2-HEXANONE	591-78-6	10.0	Below MDL ug/Kg
\$08025	8260	CIS-1,3-DICHLOROPROPENE	10061-01-5	5.0	Below MDL ug/Kg
\$08025	8260	TOLUENE	108-88-3	5.0	Below MDL ug/Kg
\$08025	8260	TRANS-1,3-DICHLOROPROPENE	10061-02-6	5.0	Below MDL ug/Kg
\$08025	8260	1,1,2-TRICHLOROETHANE	79-00-5	5.0	Below MDL ug/Kg Below MDL ug/Kg
\$08025	8260	1,3-DICHLOROPROPANE	142-28-9 127-18-4	5.0 5.0	6.0 ug/Kg
\$08025	8260	TETRACHLOROETHENE	124-48-1	5.0	Below MDL ug/Kg
\$08025	8260	CHLORODIBROMOMETHANE	106-93-4	5.0	Below MDL ug/Kg
\$08025	8260	1,2-DIBROMOETHANE	108-93-4	5.0	Below MDL ug/Kg
\$08025	8260	CHLOROBENZENE	100-41-4	5.0	Below MDL ug/Kg
\$08025	8260	ETHYLBENZENE	630-20-6	5.0	Below MDL ug/Kg
\$08025	8260	1,1,1,2-TETRACHLOROETHANE XYLENE (TOTAL)	1330-20-7	5.0	Below MDL ug/Kg
\$08025	8260	• •	100-42-5	5.0	Below MDL ug/Kg
\$08025	8260	STYRENE ISOPROPYLBENZENE	98-82-8	5.0	Below MDL ug/Kg
\$08025	8260		,75-25-2	5.0	Below MDL ug/Kg
\$08025	8260	BROMOFORM 1,1,2,2-TETRACHLOROETHANE	79-34-5	5.0	Below MDL ug/Kg
\$08025 \$08025	8260 8260	1,2,3-TRICHLOROPROPANE	96-18-4	5.0	Below MDL ug/Kg
\$08025	8260	N-PROPYLBENZENE	103-65-1	5.0	Below MDL ug/Kg
\$08025 \$08025	8260	BROMOBENZENE	108-86-1	5.0	Below MDL ug/Kg
\$08025 \$08025	8260 8260	1,3,5-TRIMETHYLBENZENE	108-67-8	5.0	Below MDL ug/Kg
\$08025 \$08025	8260	2-CHLOROTOLUENE	95-49-8	5.0	Below MDL ug/Kg
\$08025	8260	4-CHLOROTOLUENE	106-43-4	5.0	Below MDL ug/Kg
\$08025	8260	TERT-BUTYLBENZENE	98-06-6	5.0	Below MDL ug/Kg
\$08025	8260	1,2,4-TRIMETHYLBENZENE	95-63-6	5.0	Below MDL ug/Kg
\$08025	8260	SEC-BUTYLBENZENE	135-98-8	5.0	Below MDL ug/Kg
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Sample []	D AA073	Date Ana	lyzed	05/31/94		Date	Sampled	05/25/94
Sample D	escription	3326B, SB6-10'				Time	Sampled	14:00
Test Code	Method	Analyte	CA	S No.		MDL	Result	Unit
		P-ISOPROPYLTOLUENE	. 99.	-87-6		- ·5.0	Below	MDL ug/Kg
\$08025	8260	1,3-DICHLOROBENZENE		1-73-1		5.0		MDL ug/Kg
\$08025		1,4-DICHLOROBENZENE		6-46-7		5.0		MDL ug/Kg
\$08025	8260 8260	N-BUTYLBENZENE		4-51-8		5.0		MDL ug/Kg
\$08025	8260	1,2-DICHLOROBENZENE		5-50-1		5.0		MDL ug/Kg
\$08025		1,2-DIBROMO-3-CHLOROPROPANE		6-12-8		5.0		MDL ug/Kg
\$08025	8260 8260	1,2,4-TRICHLOROBENZENE		2-82-1		5.0		MDL ug/Kg
\$08025	8260	HEXACHLOROBUTADIENE		7-68-3	•	5.0		MDL ug/Kg
\$08025 \$08025	8260	NAPHTHALENE		1-20-3		5.0		MDL ug/Kg
\$08025 \$08025	8260	1,2,3-TRICHLOROBENZENE		7-61-6		5.0		MDL ug/Kg
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Sample L	D AA073	Date Ana	lyzed	05/27/94		Date	Sampled	05/25/94
Sample I	escription)	3326B, SB7-10'				Time	e Sampled	14:40
Test Code	Method	Analyte	CA	S No.		MDL	Resul	t Unit
\$06018	8270	*****SEMI VOLATILES (SOIL)***	***				****	**** ug/Kg
\$06018	8270	N-NITROSODIMETHYLAMINE		-75 - 9		1000		MDL ug/Kg
\$06018	8270	ANILINE		-53-3		1000		MDL ug/K
\$06018	8270	PHENOL		-95-2		1000		MDL ug/K
\$0601B	8270	BIS(2-CHLOROETHYL) ETHER		-44-1		1000		MDL ug/K
\$06018	8270	2-CHLOROPHENOL		-57-8		1000		MDL ug/K
\$06018	8270	1,3-DICHLOROBENZENE		-73-1		1000		MDL ug/K
\$06018	8270	1,4-DICHLOROBENZENE		-46-7		1000		MDL ug/K
\$06018	8270	BENZYL ALCOHOL		-51-6		1000		MDL ug/K
\$06018	8270	1,2-DICHLOROBENZENE		-50-1		1000		MDL ug/K
\$06018	8270	BIS(2-CHLOROISOPROPYL)ETHER		-60-1		1000		MDL ug/K
\$06018	8270	2-METHYLPHENOL		-48-7		1000	Below	MDL ug/K
\$06018	8270	4-METHYLPHENOL		-44-5		1000		MDL ug/K
\$06018	8270	N-NITROSO-DI-N-PROPYLAMINE		-64-7		1000		MDL ug/K
\$06018	8270	HEXACHLOROETHANE		-72-1		- 1 000		MDL ug/K
\$06018	8270	NITROBENZENE	98	-95 -₹		(2-1)poo		MDL ug/K
\$06018	8270	ISOPHORONE		-59 €	e	52		MDL ug/K
\$06018	8270	2-NITROPHENOL	88	-75 S	JUN	ರಿ⊘aboo	Below	MDL ug/K
\$06018	8270	2,4-DIMETHYLPHENOL	105	-67 T9		1,000		MDL ug/K
\$06018	8270	BIS(-2-CHLOROETHOXY)METHANE		-91+ì	0	\$ \$ 000		MDL ug/K
\$06018	8270	2,4-DICHLOROPHENOL		-83+2	-ت	- H000	Below	MDL ug/K
\$06018	8270	1,2,4-TRICHLOROBENZENE	120	-82 1	1994	ត្រិឱ្µoo	Below	MDL ug/K
\$06018	8270	BENZOIC ACID		-85-¦ģ	35		Below	MDL ug/K
\$06018	8270	NAPHTHALENE		-20-3		9 000	Below	MDL ug/K
\$06018	8270	4-CHLOROANILINE		-47-8-		10 00		MDL ug/K
\$06018	8270	HEXACHLOROBUTADIENE		-68-3		1000		MDL ug/K
\$06018	8270	4-CHLORO-3-METHYLPHENOL		-50-7		2000		MDL ug/K
\$06018	8270	2-METHYLNAPHTHALENE		-57-6		1000		MDL ug/K
\$06018	8270	HEXACHLOROCYCLOPENTADIENE		-47-4		1000		MDL ug/K
\$06018	8270	2,4,6-TRICHLOROPHENOL		-06-2		1000		MDL ug/K
\$06018	8270	2,4,5-TRICHLOROPHENOL		-95-4		1000		MDL ug/K
\$06018	8270	2-CHLORONAPHTHALENE		-58-7		1000		MDL ug/K
\$06018	8270	2-NITROANILINE		74-4		1000		MDL ug/K
\$06018	8270	DIMETHYL PHTHALATE		-11-3		1000		MDL ug/R
\$06018	8270	ACENAPHTHYLENE		3-96-8		1000		MDL ug/K
\$06018	8270	2,6-DINITROTOLUENE		-20-2		1000		MDL ug/K
AAAATD	02 I V	5,0-DIRITACIONOME	300	45-2		2000	7910W	9/

Sample ID AA07353 Date Analyzed 05/27/94 Date Sampled 05/25/94 Sample Description 3326B, SB7-10' Time Sampled 14:40

Sample 1	escripuon	33268, 587-10				1
Test Code	Method	Analyte		CAS No.	MDL	Result Unit
\$06018	8270	3-NITROANILINE		99-09-2	<u> </u>	Below MDL ug/Kg
\$06018	8270	ACENAPHTHENE		83-32-9	1000	Below MDL ug/Kg
\$06018	8270	2,4-DINITROPHENOL		51-28-5	5000	Below MDL ug/Kg
\$06018	8270	4-NITROPHENOL		100-02-7	5000	Below MDL ug/Kg
\$06018	8270	DIBENZOFURAN		132-64-9	1000	Below MDL ug/Kg
\$06018	8270	2,4-DINITROTOLUENE		121-14-2	1000	Below MDL ug/Kg
\$06018	8270	DIETHYLPHTHALATE		84-66-2	1000	Below MDL ug/Kg
\$06018	8270	4-CHLOROPHENYL-PHENYL	ETHER	7005-72-3	1000	Below MDL ug/Kg
\$06018	8270	FLUORENE		86-73-7	1000	Below MDL ug/Kg
\$06018	8270	4-NITROANILINE		100-01-6	1000	Below MDL ug/Kg
\$06018	8270	4,6-DINITRO-2-METHYLP	HENOL	534-52-1	5000	Below MDL ug/Kg
\$06018	8270	N-NITROSODIPHENYLAMIN	E	86-30-6	1000	Below MDL ug/Kg
\$06018	8270	4-BROMOPHENYL-PHENYL	ETHER	101-55-3	1000	Below MDL ug/Kg
\$06018	8270	HEXACHLOROBENZENE	JU Panes	(7 [3−74−1	1000	Below MDL ug/Kg
\$06018	8270	PENTACHLOROPHENOL		7-86-5	5000	Below MDL ug/Kg
\$06018	8270			8-01-5 الأطالم	1000	Below MDL ug/Kg
\$06018	8270	ANTHRACENE		7-12-14ق	1000	Below MDL ug/Kg
\$06018	8270	DI-N-BUTYLPHTHALATE	ယ်	74-2	1000	Below MDL ug/Kg
\$06018	8270	FLUORANTHENE		[-2 06-44-0	1000	Below MDL ug/Kg
\$06018	8270	BENZIDINE	1994	(<u> </u>	7999	Below MDL ug/Kg
\$06018	8270	PYRENE		(12 9-00-0	1000	Below MDL ug/Kg
\$06018	8270	BUTYLBENZYLPHTHALATE		65-68-7	1000	Below MDL ug/Kg
\$06018	8270	3,3'-DICHLOROBENZIDIÑ	E	91-94-1	1000	Below MDL ug/Kg
\$06018	8270	BENZO(A)ANTHRACENE		56- 55-3	1000	Below MDL ug/Kg
\$06018	8270	BIS(2-ETHYLHEXYL)PHTH	ALATE	117-81-7	1000	Below MDL ug/Kg
\$06018	8270	CHRYSENE		218-01-9	1000	Below MDL ug/Kg
\$06018	8270	DI-N-OCTYL PHTHALATE		117-84-0	1000	Below MDL ug/Kg
\$06018	8270	BENZO(B)FLUORANTHENE		205-99-2	1000	Below MDL ug/Kg
\$06018	8270	BENZO(K)FLUORANTHENE		207-08-9	1000	Below MDL ug/Kg
\$06018	8270	BENZO(A)PYRENE		50-32-8	1000	Below MDL ug/Kg
\$06018	8270	INDENO(1,2,3-CD)PYREN		193-39-5	1000	Below MDL ug/Kg
\$06018	8270	DIBENZO(A, H) ANTHRACEN	ΙE	53-70-3	1000	Below MDL ug/Kg
\$06018	8270	BENZO(G,H,I)PERYLENE		191-24-2	1000	Below MDL ug/Kg
\$08009	8015	*****TPH 8015 MOD (SC)IL)****	•		****** mg/Kg
\$08009	8015	GASOLINE			10	Below MDL mg/Kg
\$08009	8015	KEROSENE			10	Below MDL mg/Kg
\$08009	8015	DIESEL	. = = =		10	Below MDL mg/Kg
\$08025	8260	***VOLATILES (GC/MS)			10.0	******* ug/Kg
\$08025	8260	DICHLORODIFLUOROMETHA	ANE	75-71-8	10.0	Below MDL ug/Kg
\$08025	8260	CHLOROMETHANE		74-87-3	10.0	Below MDL ug/Kg
\$08025	8260	VINYL CHLORIDE		75-01-4	10.0 10.0	Below MDL ug/Kg
\$08025	8260	BROMOMETHANE		74-83-9	5.0	Below MDL ug/Kg
	-8260	CHLOROETHANE		75-00-3	5.0	Below MDL ug/Kg Below MDL ug/Kg
\$08025	8260	TRICHLOROFLUOROMETHAN	NE:	75-69-4	5.0	Below MDL ug/Kg
\$08025	8260	1,1-DICHLOROETHENE		75-35-4	10.0	Below MDL ug/Kg
\$08025	8260	METHYLENE CHLORIDE		75-09-2	5.0	Below MDL ug/Kg
\$08025	8260	CARBON DISULFIDE		75-15-0 107-13-1	5.0	Below MDL ug/Kg
\$08025	8260	ACRYLONITRILE	TEMP	156-60-5	5.0	Below MDL ug/Kg
\$08025	8260	TRANS-1, 2-DICHLOROETI	LENE	75-34-3	5.0	Below MDL ug/Kg
\$08025	8260	1,1-DICHLOROETHANE		75-34-3 594-20-7	5.0	Below MDL ug/Kg
\$08025	8260	2,2-DICHLOROPROPANE	arc.	156-59-2	5.0	Below MDL ug/Kg
\$08025	8260	CIS-1, 2-DICHLOROETHER	N.E.	67-66-3	5.0	Below MDL ug/Kg
\$08025	8260	CHLOROFORM		74-97-5	5.0	Below MDL ug/Kg
\$08025	8260	BROMOCHLOROMETHANE		14-31-3	3.0	Below intradive

Sample ID AA07353 Date Analyzed 05/27/94 Date Sampled 05/25/94
Sample Description 3326B, SB7-10' Time Sampled 14:40

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Test Code	Method	Analyte —	CAS No	- MDL-	··· -Result · Unit ·-
\$08025	8260	1,1,1-TRICHLOROETHANE ·	- ·71-55-6 	5:0	Below MDL ug/Kg
\$08025	8260	1,1-DICHLOROPROPENE	563-58-6	5.0	Below MDL ug/Kg
\$08025	8260	CARBON TETRACHLORIDE	56-23-5	5.0	Below MDL ug/Kg
\$08025	8260	1,2-DICHLOROETHANE	106-06-2	5.0	Below MDL ug/Kg
\$08025	8260	BENZENE	71-43-2	5.0	Below MDL ug/Kg
\$08025	8260	TRICHLOROETHENE	79-01-6	5.0	58 ug/Kg
\$08025	8260	1,2-DICHLOROPROPANE	78-87-5	5.0	Below MDL ug/Kg
\$08025	8260	BROMODICHLOROMETHANE	75-27-4	5.0	Below MDL ug/Kg
\$08025	8260	DIBROMOMETHANE	74-95-3	5.0	Below MDL ug/Kg
\$08025	8260	4-METHYL-2-PENTANONE	106-10-1	10.0	Below MDL ug/Kg
\$08025	8260	2-HEXANONE	591-78-6	10.0	Below MDL ug/Kg
\$08025	8260	CIS-1,3-DICHLOROPROPENE	10061-01-5	5.0	Below MDL ug/Kg
\$08025	8260	TOLUENE	108-88-3	5.0	Below MDL ug/Kg
\$08025	8260	TRANS-1,3-DICHLOROPROPENE	10061-02-6	5.0	Below MDL ug/Kg
\$08025	8260	1,1,2-TRICHLOROETHANE	79-00-5	5.0	Below MDL ug/Kg
\$08025	8260	1,3-DICHLOROPROPANE	142-28-9	5.0	Below MDL ug/Kg
\$08025	8260	TETRACHLOROETHENE	127-18-4	5.0	24 ug/Kg
\$08025	8260	CHLORODIBROMOMETHANE	124-48-1	5.0	Below MDL ug/Kg
\$08025	8260	1,2-DIBROMOETHANE	106-93-4	5.0	Below MDL ug/Kg
\$08025	8260	CHLOROBENZENE	108-90-7	5.0	Below MDL ug/Kg
\$08025	8260	ETHYLBENZENE	100-41-4	5.0	Below MDL ug/Kg
\$08025	8260	1,1,1,2-TETRACHLOROETHANE	630-20-6	5.0	Below MDL ug/Kg
\$08025	8260	XYLENE (TOTAL)	1330-20-7	5.0	Below MDL ug/Kg
\$08025	8260	STYRENE	100-42-5	5.0	Below MDL ug/Kg
\$08025	8260	ISOPROPYLBENZENE	98-82-8	5.0	Below MDL ug/Kg
\$08025	8260	BROMOFORM	75-25-2	5.0	Below MDL ug/Kg
\$08025	8260	1,1,2,2-TETRACHLOROETHANE	79-34-5	5.0	Below MDL ug/Kg
\$08025	8260	1,2,3-TRICHLOROPROPANE	96-18-4	5.0	Below MDL ug/Kg
\$08025	8260	N-PROPYLBENZENE	103-65-1	5.0	Below MDL ug/Kg
\$08025	8260	BROMOBENZENE	108-86-1	5.0	Below MDL ug/Kg
\$08025	8260	1,3,5-TRIMETHYLBENZENE	108-67-8	5.0	Below MDL ug/Kg
\$08025	8260	2-CHLOROTOLUENE	95-49-8	5.0	Below MDL ug/Kg
\$08025	8260	4-CHLOROTOLUENE	106-43-4	5.0	Below MDL ug/Kg
\$08025	8260	TERT-BUTYLBENZENE	98-06-6	5.0	Below MDL ug/Kg
\$08025	8260	1,2,4-TRIMETHYLBENZENE	95-63-6	5.0	Below MDL ug/Kg
\$08025	8260	SEC-BUTYLBENZENE	135-98-8	5.0	Below MDL ug/Kg
\$08025	8260	P-ISOPROPYLTOLUENE	99-87-6	5.0	Below MDL ug/Kg
\$08025	8260	1,3-DICHLOROBENZENE	541-73-1	5.0	Below MDL ug/Kg
\$08025	8260	1,4-DICHLOROBENZENE	106-46-7	5.0	Below MDL ug/Kg
\$08025	8260	N-BUTYLBENZENE	104-51-8	5.0	Below MDL ug/Kg
\$08025	8260	1,2-DICHLOROBENZENE	95-50-1	5.0	Below MDL ug/Kg
\$08025	8260	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	5.0	Below MDL ug/Kg
\$08025	8260	1,2,4-TRICHLOROBENZENE	102-82-1	5.0	Below MDL ug/Kg
\$08025	8260	HEXACHLOROBUTADIENE	87-68-3	5.0	Below MDL ug/Kg
\$08025	8260	naphthalene	91-20-3	5.0	Below MDL ug/Kg
\$08025	8260	1,2,3-TRICHLOROBENZENE	87-61-6	5.0	Below MDL ug/Kg

Sample ID AA07354

Date Analyzed

06/01/94

Date Sampled
Time Sampled

05/25/94

Unit

16:00

Sample Description 3326B, SB8-2'

CAS No.

MDL

Result

Test Code Method

#Pages .__

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Sample ID AA07354 Date Analyzed 06/01/94 Date Sampled 05/25/94
Sample Description 3326B, SB8-2' Time Sampled 16:00

Sample L	escripuon	3326B, SB6-2			
Test Code	Method	Analyte –	CAS No.	MDL -	Result Unit
\$06018	8270	******SEMI VOLATILES (SOIL)*	****		- ******* ug/Kg
\$06018	8270	N-NITROSODIMETHYLAMINE	62-75-9	1000	Below MDL ug/Kg
\$06018	8270	ANILINE	62-53-3	1000	Below MDL ug/Rg
\$06018	8270	PHENOL	108-95-2	1000	Below MDL ug/Rg
\$06018	8270	BIS(2-CHLOROETHYL) ETHER	111-44-1	1000	Below MDL ug/Kg
\$06018	8270	2-CHLOROPHENOL	95-57-8	1000	Below MDL ug/Kg
\$06018	8270	1,3-DICHLOROBENZENE	541-73-1	1000	Below MDL ug/Kg
\$06018	8270	1,4-DICHLOROBENZENE	106-46-7	1000	Below MDL ug/Kg
\$06018	8270	BENZYL ALCOHOL	100-51-6	1000	Below MDL ug/Kg
\$06018	8270	1,2-DICHLOROBENZENE	95-50-1	1000	Below MDL ug/Kg
\$06018	8270	BIS(2-CHLOROISOPROPYL)ETHER	108-60-1	1000	Below MDL ug/Kg
\$06018	8270	2-METHYLPHENOL	95-48-7	1000	Below MDL ug/Kg
\$06018	8270	4-METHYLPHENOL	106-44-5	1000	Below MDL ug/Kg
\$06018	8270	N-NITROSO-DI-N-PROPYLAMINE	621-64-7	1000	Below MDL ug/Kg
\$06018	8270	HEXACHLOROETHANE	67-72-1	1000	Below MDL ug/Kg
\$06018	8270	NITROBENZENE	98-95-3	1000	Below MDL ug/Kg
\$06018	8270	ISOPHORONE	78-59-1	1000	Below MDL ug/Kg
\$06018	8270	2-NITROPHENOL	88-75-5	2000	Below MDL ug/Kg
\$06018	8270	2,4-DIMETHYLPHENOL	105-67-9	1000	Below MDL ug/Kg
\$06018	8270	BIS (-2-CHLOROETHOXY) METHANE	111-91-1	1000	Below MDL ug/Kg
\$06018	8270	2,4-DICHLOROPHENOL	120-83-2	1000	Below MDL ug/Kg
\$06018	8270	1,2,4-TRICHLOROBENZENE	120-82-1	. 1000	Below MDL ug/Kg
\$06018	8270	BENZOIC ACID	65-85-0	5000	Below MDL ug/Kg
\$06018	8270	NAPHTHALENE	91-20-3	1000	Below MDL ug/Kg
\$06018	8270	4-CHLOROANILINE	106-47-8	1000	Below MDL ug/Kg
\$06018	8270	HEXACHLOROBUTADIENE	87-68-3	1000	Below MDL ug/Kg
\$06018	8270	4-CHLORO-3-METHYLPHENOL	59-50-7	2000	Below MDL ug/Kg
\$06018	8270	2-METHYLNAPHTHALENE	91-57-6	1000	Below MDL ug/Kg
\$06018	8270	HEXACHLOROCYCLOPENTADIENE	77-47-4	1000	Below MDL ug/Kg
\$06018	8270	2,4,6-TRICHLOROPHENOL	88-06-2	1000	Below MDL ug/Kg
\$06018	8270	2,4,5-TRICHLOROPHENOL	95-95-4	1000	Below MDL ug/Kg
\$06018	8270	2-CHLORONAPHTHALENE	91-58-7	1000	Below MDL ug/Kg
\$06018	8270	2-NITROANILINE	88-74-4	1000	Below MDL ug/Kg
\$06018	8270	DIMETHYL PHTHALATE	131-11-3	1000	Below MDL ug/Kg
\$06018	8270	ACENAPHTHYLENE S	ූූ 208−96−8	1000	Below MDL ug/Kg
\$06018	8270	Z.G~DINIIROIOLUEND:	606-20-2	1000	Below MDL ug/Kg
\$06018	8270	3-NITROANILINE	৯×님 99−09−2	1000	Below MDL ug/Kg
\$06018	8270	ACENAPHTHENE	83-32-9	1000	Below MDL ug/Kg
\$06018	8270	2,4-DINITROPHENOL	[25] 51-28-5	5000	Below MDL ug/Kg
\$06018	8270	4-NITROPHENOL	[] 100-02-7	5000	Below MDL ug/Kg
\$06018	8270	DIBENZOFURAN	132-64-9	1000	Below MDL ug/Kg
\$06018	8270	2,4-DINITROTOLUENE	121-14-2	1000	Below MDL ug/Kg
\$06018	8270	DIETHYLPHTHALATE	84-66-2	1000	Below MDL ug/Kg
\$06018	8270	4-CHLOROPHENYL-PHENYL ETHER	7005-72-3	1000	Below MDL ug/Kg
\$06018	8270	FLUORENE	86-73-7	1000	Below MDL ug/Kg
\$06018	8270	4-NITROANILINE	100-01-6	1000	Below MDL ug/Kg
\$06018	8270	4,6-DINITRO-2-METHYLPHENOL	534-52-1	5000	Below MDL ug/Kg
\$06018	8270	N-NITROSODIPHENYLAMINE	86-30-6	1000	Below MDL ug/Kg
\$06018	8270	4-BROMOPHENYL-PHENYL ETHER	101-55-3	1000	Below MDL ug/Kg
\$06018	8270	HEXACHLOROBENZENE	118-74-1	1000	Below MDL ug/Kg
\$06018	8270	PENTACHLOROPHENOL	87-86-5	5000	Below MDL ug/Kg
\$06018	8270	PHENANTHRENE	85-01-8	1000	1670 ug/Kg
\$06018	8270	ANTHRACENE	120-12-7	1000	Below MDL ug/Kg
\$06018	8270	DI-N-BUTYLPHTHALATE	84-74-2	1000	Below MDL ug/Kg

Sample ID AA07354 Date Analyzed 06/01/94 Date Sampled 05/25/94
Sample Description 3326B, SB8-2' Time Sampled 16:00

Test Code	Method	Analyte		- CAS No.	· MDL	Result	
		•	··· <u></u>	206-44-0	1000		_ 0 ug/Kg _
\$06018	8270	FLUORANTHENE		92-87-5	7999	Below MD	
\$06018	8270	BENZIDINE		129-00-0	1000		Oug/Kg
\$06018	8270	PYRENE		85-68-7	1000	Below MD	
\$06018	8270	BUTYLBENZYLPHTHALATE		91-94-1	1000	Below MD	
\$06018	8270	3,3'-DICHLOROBENZIDINE		56-55-3	1000		0 ug/Kg
\$06018	8270	BENZO(A)ANTHRACENE	n n e	117-81-7	1000	Below MD	
\$06018	8270	BIS(2-ETHYLHEXYL)PHTHAI	TWIE	218-01-9	1000		0 ug/Kg
\$06018	8270	CHRYSENE DI-N-OCTYL PHTHALATE		117-84-0	1000	Below MD	
\$06018	8270			205-99-2	1000	Below MD	
\$06018	8270	BENZO(B)FLUORANTHENE		207-08-9	1000		0 ug/Kg
\$06018	8270	BENZO(K)FLUORANTHENE		50-32-8	1000		0 ug/Kg
\$06018	8270	BENZO(A)PYRENE		193-39-5	1000	Below MD	
\$06018	8270	INDENO(1,2,3-CD)PYRENE		53-70-3	1000		0 ug/Kg
\$06018	8270	DIBENZO(A, H)ANTHRACENE		191-24-2	1000		0 ug/Kg
\$06018	8270	BENZO(G,H,I)PERYLENE *****TPH 8015 MOD (SOI)	· \ * * * * *	131-24-2		*****	
\$08009	8015		5)		10	Below MD	
\$08009	8015	GASOLINE			10	Below MD	• -
\$08009	8015	KEROSENE			10	Below MD	
\$08009	8015	DIESEL ***VOLATILES (GC/MS) (COTT \ + + +			*****	
\$08025	8260	DICKLORODIFLUOROMETHAN		75-71-8	10.0	Below MI	• -
\$08025	8260	CHLOROMETHANE	-	74-87-3	10.0	Below MI	
\$08025	8260	VINYL CHLORIDE		75-01-4	10.0	Below MI	
\$08025	8260	BROMOMETHANE		74-83-9	10.0	Below MI	
\$08025	8260 8260	CHLOROETHANE		75-00-3	5.0	Below MI	
\$08025	8260 8260	TRICHLOROFLUOROMETHANE		75-69-4	5.0	Below MI	
\$08025	8260	1,1-DICHLOROETHENE		75-35-4	5.0	Below MI	
\$08025	8260 8260	METHYLENE CHLORIDE		75-09-2	10.0	Below MI	
\$08025	8260 8260	CARBON DISULFIDE		75-15-0	5.0	Below MI	
\$08025	8260 8260	ACRYLONITRILE		107-13-1	5.0	Below MI	
\$08025		TRANS-1, 2-DICHLOROETHE	NP	156-60-5	5.0	Below MI	
\$08025	8260 8260	1,1-DICHLOROETHANE	1111	75-34-3	5.0	Below MI	
\$08025		2,2-DICHLOROPROPANE		594-20-7	5.0	Below MI	
\$08025	8260 8260	CIS-1, 2-DICHLOROETHENE		156-59-2	5.0	Below MI	
\$08025 \$08025	8260	CHLOROFORM		67-66-3	5.0	Below MI	
\$08025	8260	PROMOCUL ORONEMUSINE -		74 -97-5	5.0	Below MI	
\$08025	8260	1,1,1-TRICHLOROETHANE	JU #Pages	r-711-55-6	5.0	Below MI	
\$08025	8260	1,1-DICHLOROPROPENE	.	(563-58-6	5.0	Below MI	
\$08025	8260	CARBON TETRACHLORIDE	sal	J⊳56-23-5	5.0	Below MI	
\$08025	8260	1,2-DICHLOROETHANE	; 2	106-06-2	5.0	Below MI	-
\$08025 \$08025	8260	BENZENE	0	21-43-2	5.0	Below MI	
\$08025	8260	TRICHLOROETHENE	် မ	29-01-6	12.5		00 ug/Kg
\$08025	8260	1,2-DICHLOROPROPANE	1 25	[25]8-87-5	5.0	Below Mi	
\$08025	8260	BROMODICHLOROMETHANE	1994	r=7)5-27-4	5.0	Below Mi	
\$08025	8260	DIBROMOMETHANE	1	95-3	5.0	Below MI	
\$08025	8260	4-METHYL-2-PENTANONE	<u> </u>	106 -10-1	10.0	Below M	
	8260	2-HEXANONE		591-78-6	10.0	Below M	
\$08025 \$08025	8260	CIS-1,3-DICHLOROPROPEN	E	10061-01-5	5.0	Below M	
	8260	TOLUENE	-	108-88-3	5.0		31 ug/Kg
\$08025 \$08025	8260	TRANS-1,3-DICHLOROPROP	ENE	10061-02-6	5.0	Below M	
	8260	1,1,2-TRICHLOROETHANE		79-00-5	5.0	Below M	
\$08025 \$08025	8260 8260	1,3-DICHLOROPROPANE		142-28-9	5.0		DL ug/Kg
\$08025	8260 8260	TETRACHLOROETHENE		127-18-4	12.5		70 ug/Kg
\$08025 \$00025	8260 8260	CHLORODIBRUMUMETHANE		124-48-1	5.0		DL ug/Kg
\$000E3	04 V V	CUTOKONIBKOMOMETUWNE		154-40-1	3.0	DCTO# LD	5' -5

Sample I	D AA0735	54 1	Date Analy	yzed	06/01/94	Date S	ampled	05/	25/94
Sample D	escription)	3326B, SB8-2'				Time S	ampled	16:	00
Test Code	Method	Analyte -		CAS	No	-MDL -	Result	٠.	Unit
\$08025	8260	.1,2-DIBROMOETHANE	<u> </u>	106	-93-4	 5:0	Below	MDL	ug/Kg
\$08025	8260	CHLOROBENZENE		108	-90-7	5.0	Below	MDL	ug/Kg
\$08025	8260	ETHYLBENZENE		100-	41-4	5.0	Below	MDL	ug/Kg
\$08025	8260	1,1,1,2-TETRACHLOROETH	ANE	630	-20-6	5.0	Below	MDL	ug/Kg
\$08025	8260	XYLENE (TOTAL)		1330-	20-7	5.0	Below	MDL	ug/Kg
\$08025	8260	STYRENE		100	-42-5	5.0	Below	MDL	ug/Rg
\$08025	8260	ISOPROPYLBENZENE		98-	82-8	5.0	Below	MDL	ug/Kg
\$08025	8260	BROMOFORM		75	-25-2	5.0	Below	MDL	ug/Kg
\$08025	8260	1,1,2,2-TETRACHLOROETH	ANE	79	-34-5	5.0	Below	MDL	ug/Kg
\$08025	8260	1,2,3-TRICHLOROPROPANE		96	-18-4	5.0	Below	MDL	ug/Kg
\$08025	8260	N-PROPYLBENZENE		103-	65-1	5.0	Below	MDL	ug/Kg
\$08025	8260	BROMOBENZENE		 308	-86-1	5.0	Below	MDL	ug/Kg
\$08025	8260	1,3,5-TRIMETHYLBENZEN]	L-Alos	-67-8	5.0	Below	MDL	ug/Kg
\$08025	8260	2-CHLOROTOLUENE	ر	~실기95	-49-8	5.0	Below		
\$08025	8260	4-CHLOROTOLUENE	NUC	ء مالاتحاك	-43-4	5.0	Below		
\$08025	8260	TERT-BUTYLBENZENE		ις συ	1-06-6	5.0	Below		
\$08025	8260	1,2,4-TRIMETHYLBENZENE	03	1/51	-63-6	5.0	Below		
\$08025	8260	SEC-BUTYLBENZENE		1 - 11	-98-8	5.0	Below		
\$08025	8260	P-ISOPROPYLTOLUENE	1994	(四期)-	87-6	5.0	Below		
\$08025	8260	1,3-DICHLOROBENZENE	¥-		-73-1	5.0	Below		-
\$08025	8260	1,4-DICHLOROBENZENE		_	-46-7	5.0	Below		
\$08025	8260	N-BUTYLBENZENE			-51-8	5.0	Below		
\$08025	8260	1,2-DICHLOROBENZENE		95	-50-1	5.0	Below		
\$08025	8260	1,2-DIBROMO-3-CHLOROPR	OPANE		-12-8	5.0	Below		_
\$08025	8260	1,2,4-TRICHLOROBENZENE			2-82-1	5.0	Below		
\$08025	8260	HEXACHLOROBUTADIENE			7-68-3	5.0	Below		
\$08025	8260	NAPHTHALENE			1-20-3	5.0	Below		
\$08025	8260	1,2,3-TRICHLOROBENZENE		87	7-61-6	5.0	Below	MDL	ug/Kg
						_	. 		
Sample l	ID AA073	55	Date Anal	lvzed	05/31/94	Date S	ampled	05	<i>[</i> 25 <i>[</i> 94
•		3326B, SB9-3'				Time S	Sampled		:30
Test Code	Method	Analyte		CA	S No.	MDL	Result	i.	Unit
000010	8270	*****SEMI VOLATILES (S	OTT.) +++	**			****	***	μα/Κα
\$06018	8270 8270	N-NITROSODIMETHYLAMINE			-75-9	1000	Below		
\$06018 \$06018	8270	ANILINE	•		-53-3	1000	Below		-
\$06018	8270	PHENOL			-95-2	1000	Below		-
\$06018	8270	BIS(2-CHLOROETHYL) ETH	ŒR		-44-1	1000	Below		-
\$06018	8270	2-CHLOROPHENOL			-57-8	1000	Below		
\$06018	.8270	1,3-DICHLOROBENZENE			-73-1	1000	Below		
\$06018	8270	1,4-DICHLOROBENZENE			-46-7	1000	Below		
\$06018	8270	BENZYL ALCOHOL			-51-6	1000	Below		-
\$06018 \$06018	8270	1,2-DICHLOROBENZENE			-50-1	1000			ug/Kg
\$06018	8270 8270	BIS(2-CHLOROISOPROPYL)	ETHER		-60-1	1000			ug/Kg
\$06018	8270 8270	2-METHYLPHENOL			-48-7	1000			ug/Kg
\$06018 \$06018	8270 8270	4-METHYLPHENOL			-44-5	1000			ug/Kg
\$06018 \$06018	8270 8270	N-NITROSO-DI-N-PROPYLA	MINE		-64-7	1000			ug/Kg
\$06018 \$06018	8270 8270	HEXACHLOROETHANE			-72-1	1000			ug/Kg
\$06018	8270 8270	NITROBENZENE			-95-3	1000			ug/Kg
\$06018	8270 8270	ISOPHORONE			-59-1	1000			ug/Kg
\$06018	8270	2-NITROPHENOL .			-75 - 5	2000			ug/Kg
•									- -

Sample ID AA07355

Sample Description 3326B, SB9-3'

Date Analyzed

05/31/94

Date Sampled

05/25/94

Time Sampled

16:30

Test Code	Method	Analyte	CAS No.	MDL	Result	Unit –
		•	105-67-9	- 1000	Below MDI	100/20
\$06018	8270	2,4-DIMETHYLPHENOL	111-91-1	1000	Below MDI	
\$06018	8270	BIS(-2-CHLOROETHOXY)METHANE 2,4-DICHLOROPHENOL	120-83-2	1000	Below MDI	
\$06018	8270	•	120-83-2	1000	Below MD	-
\$06018	8270	1,2,4-TRICHLOROBENZENE	65-85-0	5000	Below MD	
\$06018	8270	BENZOIC ACID NAPHTHALENE	91-20-3	1000	Below MD	-
\$06018	8270	·	106-47-8	1000	Below MD	-
\$06018	8270	4-CHLOROANILINE HEXACHLOROBUTADIENE	87-68-3	1000	Below MD	
\$06018	8270	4-CHLORO-3-METHYLPHENOL	59-50-7	2000	Below MD	• -
\$06018	8270 8270	2-METHYLNAPHTHALENE	91-57-6	1000	Below MD	
\$06018 \$06018	8270	HEXACHLOROCYCLOPENTADIENE	77-47-4	1000	Below MD	
\$06018	8270	2,4,6-TRICHLOROPHENOL	88-06-2	1000	Below MD	
\$06018	8270	2,4,5-TRICHLOROPHENOL	95-95-4	1000	Below MD	
\$06018	8270	2-CHLORONAPHTHALENE	91-58-7	1000	Below MD	
\$06018	8270	2-NITROANILINE	88-74-4	1000	Below MD	
\$06018	8270	DIMETHYL PHTHALATE	131-11-3	1000	Below MD	-
\$06018	8270	ACENAPHTHYLENE	208-96-8	1000	Below MD	
\$06018	8270	2,6-DINITROTOLUENE	606-20-2	1000	Below MD	
\$06018	8270	3-NITROANILINE	99-09-2	1000	Below MD	
\$06018	8270	ACENAPHTHENE	83-32-9	1000	Below MD	
\$06018	8270	2,4-DINITROPHENOL	51-28-5	5000	Below MD	L ug/Kg
\$06018	8270	4-NITROPHENOL	100-02-7	5000	Below MD	L ug/Kg
\$06018	8270	DIBENZOFURAN	132-64-9	1000	Below MD	L ug/Kg
\$06018	8270	2,4-DINITROTOLUENE	121-14-2	1000	Below MD	L ug/Kg
\$06018	8270	DIETHYLPHTHALATE	84-66-2	1000	Below MD	L ug/Kg
\$06018	8270	4-CHLOROPHENYL-PHENYL ETHER	7005-72-3	1000	Below MD	Lug/Kg
\$06018	8270	FLUORENE	86-73-7	1000	Below MD	Lug/Kg
\$06018	8270	4-NITROANILINE	100-01-6	1000	Below MD	Lug/Kg
\$06018	8270	4,6-DINITRO-2-METHYLPHENOL	534-52-1	5000	Below MD	
\$06018	8270	N-NITROSODIPHENYLAMINE	86-30-6	1000	Below MD	
\$06018	8270	4-BROMOPHENYL-PHENYL ETHER	101-55-3	1000	Below MD	
\$06018	8270	HEXACHLOROBENZENE	118-74-1	1000	Below MD	
\$06018	8270	PENTACHLOROPHENOL	87-86-5	5000	Below MD	
\$06018	8270	PHENANTHRENE	85-01-8	1000	Below MD	
\$06018	8270	ANTHRACENE	120-12-7	1000	Below MD	_
\$06018	8270	DI-N-BUTYLPHTHALATE	84-74-2	1000	Below MD	
\$06018	8270	FLUORANTHENE	206-44-0	1000	Below MD	
\$06018	8270	BENZIDINE	92-87-5	7999	Below MD	
\$06018	8270	PYRENE	129-00-0	1000	Below MD	
\$06018	8270	BUTYLBENZYLPHTHALATE	85-68-7	1000	Below MD	
\$06018	8270	3,3'-DICHLOROBENZIDINE	91-94-1	1000 1000	Below MD Below MD	
\$06018	8270	BENZO(A)ANTHRACENE	56-55-3	1000	Below MD	
\$06018	8270	BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7 218-01-9	1000	Below MD	
\$06018	8270	CHRYSENE	117-84-0	1000	Below MD	
\$06018	8270	DI-N-OCTYL PHTHALATE	205-99-2	1000	Below MD	
\$06018	8270	BENZO(B)FLUORANTHENE	207-08-9	1000	Below MD	
\$06018	8270	BENZO(K)FLUORANTHENE BENZO(A)PYRENE	50-32-8	1000	Below MD	_
\$06018	8270	INDENO(1,2,3-CD)PYRENE	193-39-5	1000	Below MD	
\$06018 \$06018	8270 8270 -	DIBENZO(A, H) ANTHRACENE	53-70-3	1000	Below MD	
\$06018 \$06018	8270	BENZO(G,H,I)PERYLENE	191-24-2	1000	Below MD	
\$08009	8015	*****TPH 8015 MOD (SOIL)****		、	*****	
\$08009	8015	GASOLINE GOLD TO (BOLZ)	·BAXEL	り 10	Below ME	
\$08009	8015	KEROSENE	_	10	Below MD	
+ 3 - 3 - 2 -			JUN 03 1994	- 1	_	- •
		1			ו	Page 23
			#Волос	[•	-p

#Pages _____

Sample ID AA07355 Date Analyzed

Date Sampled 05/31/94

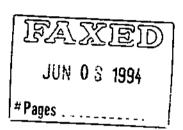
Time Sampled

05/25/94 16:30

Sample Description 3326B, SB9-3'

Test Code	Method	Analyte	CAS No.	MDL	Result Unit
\$08009	8015	·DIESEL			Below MDL mg/Kg
\$08025	8260	***VOLATILES (GC/MS) (SOIL)*	**		****** ug/Kg
\$08025	8260	DICHLORODIFLUOROMETHANE	75-71-8	10.0	Below MDL ug/Kg
\$08025	8260	CHLOROMETHANE	74-87-3	10.0	Below MDL ug/Kg
\$08025	8260	VINYL CHLORIDE	75-01-4	10.0	Below MDL ug/Kg
\$08025	8260	BROMOMETHANE	74-83-9	10.0	Below MDL ug/Kg
\$08025	8260	CHLOROETHANE	75-00-3	5.0	Below MDL ug/Kg
\$08025	8260	TRICHLOROFLUOROMETHANE	75-69-4	5.0	Below MDL ug/Kg
\$08025	8260	1,1-DICHLOROETHENE	75-35-4	5.0	Below MDL ug/Kg
\$08025	8260	METHYLENE CHLORIDE	75-09-2	10.0	Below MDL ug/Kg
\$08025	8260	CARBON DISULFIDE	75-15-0	5.0	Below MDL ug/Kg
\$08025	8260	ACRYLONITRILE	107-13-1	5.0	Below MDL ug/Kg
\$08025	8260	TRANS-1,2-DICHLOROETHENE	156-60-5	5.0	Below MDL ug/Kg
\$08025	8260	1,1-DICHLOROETHANE	75-34-3	5.0	Below MDL ug/Kg
\$08025	8260	2,2-DICHLOROPROPANE	594-20-7	5.0	Below MDL ug/Kg
\$08025	8260	CIS-1,2-DICHLOROETHENE	156-59-2	5.0	Below MDL ug/Kg
\$08025	8260	CHLOROFORM	67-66-3	5.0	Below MDL ug/Kg
\$08025	8260	BROMOCHLOROMETHANE	74-97-5	5.0	Below MDL ug/Kg
\$08025	8260	1,1,1-TRICHLOROETHANE	71-55-6	5.0	Below MDL ug/Kg
\$08025	8260	1,1-DICHLOROPROPENE	563-58-6	5.0	Below MDL ug/Kg
\$08025	8260		563-58-6 56-23-5	5.0	Below MDL ug/Kg
\$08025	8260	1,2-DICHLOROETHANE	76−06−2	5.0	Below MDL ug/Kg
\$08025	8260	DENIZENE 1.	71-43-2	5.0	Below MDL ug/Kg
\$08025	8260	CONTRACT OR OTHER PARTY OF THE	79-01-6	5.0	Below MDL ug/Kg
\$08025	8260	1 2-DICHTOROPROPANE	78-87-5	5.0	Below MDL ug/Kg
\$08025	8260	BROMODICHLOROMETHANE	[2] 75-27-4	5.0	Below MDL ug/Kg
\$08025	8260	DIBROMOMETHANE	∩^\ ¬и пе э	5.0	Below MDL ug/Kg
\$08025	8260	4-METHYL-2-PENTANONE	106-10-1	10.0	Below MDL ug/Kg
\$08025	8260	2-HEXANONE	' 591-78-6	10.0	Below MDL ug/Kg
\$08025	8260	CIS-1,3-DICHLOROPROPENE	10061-01-5	5.0	Below MDL ug/Kg
\$08025	8260	TOLUENE	108-88-3	5.0	Below MDL ug/Kg
\$08025	8260	TRANS-1,3-DICHLOROPROPENE	10061-02-6	5.0	Below MDL ug/Kg
\$08025	8260	1,1,2-TRICHLOROETHANE	79-00-5	5.0	Below MDL ug/Kg
\$08025	8260	1,3-DICHLOROPROPANE	142-28-9	5.0	Below MDL ug/Kg
\$08025	8260	TETRACHLOROETHENE	127-18-4	5.0	Below MDL ug/Kg
\$08025	8260	CHLORODIBROMOMETHANE	124-48-1	5.0	Below MDL ug/Kg
\$08025	8260	1,2-DIBROMOETHANE	106-93-4	5.0	Below MDL ug/Kg
\$08025	8260	CHLOROBENZENE	108-90-7	5.0	Below MDL ug/Kg
\$08025	8260	ETHYLBENZENE	100-41-4	5.0	Below MDL ug/Kg
\$08025	8260	1,1,1,2-TETRACHLOROETHANE	630-20-6	5.0	Below MDL ug/Kg
\$08025	8260	XYLENE (TOTAL)	1330-20-7	5.0	Below MDL ug/Kg
\$08025	8260	STYRENE	100-42-5	5.0	Below MDL ug/Kg
\$08025	8260	ISOPROPYLBENZENE	98-82-8	5.0	Below MDL ug/Kg
\$08025	8260	BROMOFORM	75-25-2	5.0	Below MDL ug/Kg
\$08025	8260	1,1,2,2-TETRACHLOROETHANE	79-34-5	5.0	Below MDL ug/Kg
\$08025	8260	1,2,3-TRICHLOROPROPANE	96-18-4	5.0	Below MDL ug/Kg
\$08025	8260	N-PROPYLBENZENE	103-65-1	5.0	Below MDL ug/Kg
\$08025	8260	BROMOBENZENE	108-86-1	5.0	Below MDL ug/Kg
\$08025	8260	1,3,5-TRIMETHYLBENZENE	108-67-8	5.0	Below MDL ug/Kg
\$08025	8260	2-CHLOROTOLUENE	95-49-8	5.0	Below MDL ug/Kg
\$08025	8260	4-CHLOROTOLUENE	106-43-4	5.0	Below MDL ug/Kg
\$08025	8260	TERT-BUTYLBENZENE	98-06-6	5.0	Below MDL ug/Kg
\$08025	8260	1,2,4-TRIMETHYLBENZENE	95-63-6	5.0	Below MDL ug/Kg
\$08025	8260	SEC-BUTYLBENZENE	135-98-8	5.0	Below MDL ug/Kg

Sample ID AA07355 Sample Description 3326		55 Date Ai	Date Analyzed 05/31/94		ampled ampled	05/25/94 16:30
Test Code	-	Analyte	- CAS No.	MDL	Result	Unit
\$08025	8260	P-ISOPROPYLTOLUENE	99-87-6	5.0	Below M	DL ug/Kg
\$08025	8260	1,3-DICHLOROBENZENE	541-73-1	5.0	Below M	DL ug/Kg
\$08025	8260	1,4-DICHLOROBENZENE	106-46-7	5.0	Below M	DL ug/Kg
\$08025	8260	N-BUTYLBENZENE	104-51-8	5.0	Below M	DL ug/Kg
\$08025	8260	1,2-dichlorobenzene	95-50-1	5.0	Below M	DL ug/Kg
\$08025	8260	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	5.0	Below M	DL ug/Kg
\$08025	8260	1,2,4-TRICHLOROBENZENE	102-82-1	5.0	Below M	DL ug/Kg
\$08025	8260	HEXACHLOROBUTADIENE	87-68-3	5.0	Below M	DL ug/Kg
\$08025	8260	NAPHTHALENE	91-20-3	5.0	Below M	DL ug/Kg
\$08025	8260	1,2,3-TRICHLOROBENZENE	87-61-6	5.0	Below N	DL ug/Kg



Clinically Proven...

Environmentally Sound!

Certifying Scientist

OHIO E.P.A.

MAR 13 2001

ENTERED DIRECTOR'S JOURNAL

BEFORE THE

OHIO ENVIRONMENTAL PROTECTION AGENCY

In the Matter of:

Kimberly-Clark Corporation 1400 Holcomb Bridge Road Roswell, Georgia 30076-2199 Director's Final Findings and Orders

I. JURISDICTION

1. These Director's Final Findings and Orders ("Orders") are issued pursuant to the authority vested in the Director of the Ohio EPA under Sections 3734.13, 3734.20, 6111.03, and 3745.01 of the Ohio Revised Code.

II. PARTIES BOUND

- 2. These Orders shall apply to and be binding upon Kimberly-Clark Corporation ("Kimberly-Clark"), its agents, successors, and assigns.
- 3. No change in ownership or corporate status of Kimberly-Clark including, but not limited to, any transfer of assets or real or personal property shall in any way alter Kimberly-Clark's obligations under these Orders.
- 4. Kimberly-Clark shall provide a copy of these Orders to all contractors, subcontractors, laboratories and consultants retained to perform any portion of the Work performed pursuant to these Orders. Kimberly-Clark shall ensure that all contractors, subcontractors, laboratories and consultants retained to perform Work pursuant to these Orders comply with the provisions of these Orders.

III. DEFINITIONS

5. Unless otherwise expressly provided herein, terms used in these Orders or in any appendices shall have the same meaning as used in Chapters 3734 and 6111 of the Ohio Revised Code. Whenever the terms listed below are used in these Orders or in any appendices, attached hereto and incorporated herein, the following definitions shall apply:

- a. "Day" shall mean a calendar day unless expressly stated to be a business day. "Business day" shall mean a day other than a Saturday, Sunday, or State Holiday. In computing any period of time under these Orders, where the last day would fall on a Saturday, Sunday, or State Holiday, the period shall run until the close of the next business day.
- b. "NCP" shall mean the National Oil and Hazardous Substances Pollution Contingency Plan, codified at 40 C.F.R. Part 300 (1990), as amended.
- c. "Ohio EPA" shall mean the Ohio Environmental Protection Agency and its designated representatives.
- d. "Paragraph" shall mean a portion of these Orders identified by an Arabic numeral or an upper or lower case letter.
 - e. "Parties" shall mean Kimberly-Clark and the Ohio EPA.
- f. "Risk Assessment Guidance for Superfund" ("RAGS") shall mean <u>RAGS</u>: <u>Volume 1 Human Health Evaluation Manual, Part B, Development of Risk-based Preliminary Remediation Goals, OSWER Directive 9285.7-01B, December, 1991, Interim attached hereto and incorporated herein as Attachment B of these Orders.</u>
- g. "Section" shall mean a portion of these Orders identified by a roman numeral.
- h. "Site" shall mean the property located at 518 East Water Street, Troy, Miami County, Ohio, commonly referred to as "Brown-Bridge Plant 1," where the treatment, storage, and/or disposal of hazardous waste, and/or the discharge into waters of the state of industrial waste or other waste has occurred, including any other area where such hazardous wastes, industrial wastes, and/or other wastes have migrated or threaten to migrate.
- i. "Waste Material" shall mean (1) any "hazardous waste" under Section 3734.01(J) of the Ohio Revised Code; (2) any "solid waste" under Section 3734.01(E) of the Ohio Revised Code; (3) any "industrial waste" under Section 6111.01(C) of the Ohio Revised Code; and (4) any "other waste" under Section 6111.01(D) of the Ohio Revised Code.
- j. "Work" shall mean all activities Kimberly-Clark is required to perform under these Orders.

IV. FINDINGS OF FACT, DETERMINATIONS, AND CONCLUSIONS OF LAW

- 6. All findings of fact, determinations, and conclusions of law necessary for the issuance of these Orders pursuant to Sections 3734.13, 3734.20, 3745.01 and 6111.03 of the Ohio Revised Code have been made and are outlined below. Ohio EPA has determined the following:
- a. Kimberly-Clark acquired the property located at 518 East Water Street in Troy, Miami County, Ohio (the "Site") as a result of a merger with Brown-Bridge Mills, Inc. on December 31, 1977. The Site consists of approximately 5 acres of land adjacent to the flood plain of the Great Miami River. Prior to September, 1994, the Site was used for the manufacture of pressure, moisture, and heat sensitive stock for labels, stamps, and related items.
- b. Brown-Bridge Industries acquired the Site from Kimberly-Clark on September 16, 1994. In 1998, Brown-Bridge Industries changed its name to Spinnaker Coating, Inc. ("Spinnaker"). Spinnaker continues to utilize this facility for the manufacture of pressure, moisture, and heat sensitive stock for labels, stamps, and related items.
- c. Toluene, as product, was stored in bulk tanks at the bulk storage area at the west end of the Site. The Site formerly contained a toluene recovery system at the west end which included a 3000 gallon flow through process tank. The flow through process tank was removed in 1988.
- d. There are known to have been at least four instances of releases at the Site, including the following:
 - i. According to Kimberly-Clark, during due diligence interviews associated with the sale of the Site to Brown-Bridge, it was discovered that in 1986 or 1987, approximately 15 to 25 gallons of toluene overflowed from a virgin toluene tank at the bulk chemical storage tank location on the Site's west end.
 - ii. According to Kimberly-Clark, in July, 1988, above-ground piping to a toluene storage tank was found to be leaking during a regularly scheduled tank-tightness test. The quantity discharged during this release has not been determined.
 - iii. According to an initial pollution incident report prepared by Ohio EPA, an

estimated 4000 pounds of toluene leaked into the atmosphere over several days prior to its discovery on April 12, 1989. The leak apparently was due to a malfunctioning steam valve at the toluene recovery system.

- iv. According to an initial pollution incident report prepared by Ohio EPA, an estimated 500 gallons of toluene leaked from the toluene recovery system to the ground underneath the system on January 25, 1994.
- e. Analysis of ground-water samples from the Site conducted by Kimberly-Clark in October, 1993 and July, 1994 showed the presence of the following compounds at levels presented below:

Chemical	Concentration (μg/l)			
Toluene	320,000			
Benzene	62			
1,1,1-Trichloroethane	270			
Tetrachloroethene	28			
Trichloroethene	400			
Vinyl Chloride	170			
Cis-1,2- dichloroethene	230			

- f. Contaminated ground water at the Site is located approximately 900 feet upgradient from a City of Troy production well. According to the City's well head protection program, the Site is located within the one-year capture zone of the City's well field.
- g. Kimberly-Clark's consultant, Applied Engineering & Science, Inc. (AES), in a report dated August, 1994, determined that ground-water contamination is migrating downgradient in a northeasterly direction off the Site onto adjacent property.
- h. Two areas of soil and ground water contamination, on the east and west portions of the property, were identified by AES.

- i. In April 1995, approximately 1525 cubic yards of contaminated soils were excavated and removed from the bulk storage and nonhazardous waste storage areas of the Site. Soil samples collected from these areas contained trichloroethene at concentrationsup to $29,000\mu g/kg$, 1,1,1-trichloroethane at concentrations up to $1400\mu g/kg$, and tetrachloroethene at concentrations up to $790\mu g/kg$.
- j. The material excavated from the bulk storage area was placed in roll-off containers. One container was manifested as hazardous waste due to its trichloroethene content.
- k. In the summer of 1995, a ground water treatment system was installed on the west end of the property and an air sparging/vapor extraction system was installed on the east end. Both systems began operation on September 6, 1995.
- I. In February 1997, Kimberly-Clark and Brown-Bridge determined that, according to ground water monitoring, their cleanup goals had been reached for the east end. The air sparging stopped in March 1997, while vapor extraction continued until January 1998.
- m. The West End pump-and-treat system consists of four pumping wells and an air stripper to treat the water. The treated water was discharged to the Great Miami River under a NPDES discharge permit.
- n. Ohio EPA invited Kimberly-Clark to negotiate an administrative order for the performance of a Remedial Investigation and Feasibility Study ("RI/FS") in 1997. At that time, Kimberly-Clark declined to enter into the administrative order stating that "continuation of the voluntary cleanup appears to be the most cost effective way to insure completion of the Site cleanup." Ohio EPA decided to change the scope of work from an RI/FS to operation and maintenance of the West End pump and treat system, with a provision for periodic evaluation of the effectiveness of the system. Kimberly-Clark declined to enter into an order that included the evaluation of effectiveness provision.
- o. In a letter dated February 14, 2001, Kimberly-Clark stated that it had "completed the soil and ground water remediation project at Spinnaker Coating Facility ..." and that it planned to shut down the system on March 1, 2001. In response to this letter, Ohio EPA sent correspondence to Kimberly-Clark on February 27, 2001 asking that the system not be shut down because of concerns that the City of Troy's public water supply wells could be jeopardized. Ohio EPA suggested that a meeting take place before any action was taken and asked for possible dates to meet. On March 1, 2001, Kimberly-Clark proceeded to shut down the pump and treat system without waiting to meet with Ohio EPA to hear Ohio EPA's concerns.

p. Kimberly-Clark collected ground-water samples on a quarterly basis from the pumping wells and monitoring wells at the Site. The analytical results for vinyl chloride from pumping wells 3 and 4 and vinyl chloride and trichloroethene from pumping well 3 and monitoring well KMW-9 for the years 1999 and 2000 follow. The results show that the concentrations of vinyl chloride and trichloroethene exceed Federal and state drinking water maximum contaminant levels (MCLs). Pumping wells 3 and 4 and monitoring well KMW-9 lie between the bulk storage area and Troy's east well field.

Vinyl Chloride

Well	3/15/99	6/16/99	9/2/99	12/16/99	3/1/00	6/6/00	9/7/00	12/13/00
PW-3	6 .	7	13	n	2.0	6.7	9.2	8.0
PW-4	n	3	1	1.1	n	n	n	3.7
Trichloroethene								
Well	3/15/99	6/16/99	9/2/99	12/16/99	3/1/00	6/6/00	9/7/00	12/13/00
PW-3	3	9	3	1.1	2.1	3.4	12	9.5
KMW-9	1	12	n	7.8	2.6	n	16	7.4

Notes:

All values are in μ g/l.

n - not detected

Boldface denotes values greater than federal and state drinking water MCLs.

The MCL for vinyl chloride is 2.0 μ g/l.

The MCL for trichloroethene is $5.0\mu g/l$.

- q. On May 23, 24 and 25, 2000, Ohio EPA collected ground-water samples from borings RS02, RS03, RS04, and RS06 along the northeast side of the Spinnaker building between the facility and Troy's east well field. Trichloroethene was detected in boring RS02 at 72 μ g/l, in boring RS03 at 70 μ g/l, in boring RS04 at 5 μ g/l, and in boring RS06 at 9.6 μ g/l. Vinyl chloride was detected in boring RS04 at 3.5 μ g/l and in boring RS06 at 2.8 μ g/l.
- r. Trichloroethene and tetrachloroethene in soil and ground water will degrade to form cis-1,2-dichloroethene. Analysis performed during the excavation and removal of soils from the Site did not include cis-1,2-dichloroethene, which has been detected in Site wells. Generally, wells downgradient from the bulk storage and nonhazardous waste storage areas have shown higher concentrations of cis-1,2-dichloroethene than upgradient

wells.

- s. The City of Troy analyzes its well water for volatile organic compounds periodically (generally, once per quarter). Cis-1,2-dichloroethene has been detected in Troy's east well field since 1988. Trichloroethene was detected in the east well field in 1990.
- t. Ohio EPA conducted a pump test of the aquifer beneath the Site in November, 2000. The pump test demonstrated that shallow ground water beneath the Site is hydraulically connected to Troy's east well field, that contaminants in ground water at the Site will migrate to the east well field, and that the Great Miami River does not form a hydraulic barrier preventing the migration of contaminants from the site to the east well field.
- u. Without the operation of the ground-water pump and treat system, increased concentrations of trichloroethene, cis-1,2-dichloroethene, and vinyl chloride will migrate to Troy's east well field.
- v. Kimberly-Clark is a "person" as defined under Section 3734.01(G) of the Ohio Revised Code.
- w. Because of their quantity, concentration, or physical or chemical characteristics, the Director has determined that toluene, benzene, 1,1,1-trichloroethane, tetrachloroethene, trichloroethene, vinyl chloride, cis-1,2-dichloroethene and other contaminants found at the Site are "hazardous wastes" as defined under Section 3734.01(J) of the Ohio Revised Code.
- x. The Site is a hazardous waste facility, solid waste facility, or other location where hazardous waste was treated, stored, or disposed.
- y. Conditions at the Site constitute a substantial threat to public health or safety or are causing or contributing or threatening to cause or contribute to air or water pollution or soil contamination.
- z. Kimberly-Clark is a "person" as defined under Section 6111.01(I) of the Ohio Revised Code.
- aa. The toluene, benzene, 1,1,1-trichloroethane, tetrachloroethene, trichloroethene, vinyl chloride, cis-1,2-dichloroethene, and other contaminants found at the Site are "industrial wastes" or "other wastes" as defined under Section 6111.01 of the Ohio

Revised Code.

- bb. The ground water and surface water at the Site are "waters of the state" as defined under Section 6111.01(H) of the Ohio Revised Code.
- cc. The Work required by these Orders will contribute to the prohibition or abatement of the discharge of industrial wastes or other wastes into the waters of the state.
- dd. In issuing these Orders, the Director has given consideration to, and based his determination on, evidence relating to the technical feasibility and economic reasonableness of complying with these Orders and to evidence relating to conditions calculated to result from compliance with these Orders, and their relation to benefits to the people of the state to be derived from such compliance.
- ee. Based upon information available to the Director as set forth in these Findings of Fact, the Director has determined that the work required by these Orders, set forth below, is in the nature of interim measures only, designed to contain, abate, mitigate and control contamination. The Director has given consideration to the evidence related to documented activities which have occurred and/or will occur at the Site. Based upon the facts presented, the Director believes that issuance of these Orders is furthering the intent of the General Assembly, that Ohio EPA will prevent, control or abate pollution of the environment for the protection and preservation of the health, safety, welfare and property of the people of the State.

V. GENERAL PROVISIONS

7. Objectives of the Orders

The objective of the Ohio EPA in issuing these Orders is to contribute to the protection of public health, safety, and welfare and the environment from the disposal, discharge, or release of Waste Material at the Site through the continued implementation and monitoring of the West End ground water pump and treatment system by Kimberly-Clark. Kimberly-Clark shall perform the Work in accordance with these Orders, including but not limited to, relevant guidance documents, and all standards, specifications, and schedules set forth in or developed pursuant to these Orders.

8. Compliance With Law

a. All activities undertaken by Kimberly-Clark pursuant to these Orders shall be performed in accordance with the requirements of all applicable federal and state laws

and regulations.

- b. Kimberly-Clark shall perform the activities required pursuant to these Orders in a manner which is not inconsistent with the NCP.
- c. Where any portion of the Work requires a permit or approval, Kimberly-Clark shall timely submit applications and take all other actions necessary to obtain such permits or approval. These Orders are not, and shall not be construed to be, a permit issued pursuant to any statute or regulation.

VI. PERFORMANCE OF THE WORK

- 9. Within five (5) days of the issuance of these Orders, Kimberly-Clark shall resume operation of the existing West End ground-water pump and treatment system described in the Site Remediation Report, found in Attachment A, until such time as the interim action ground-water compliance (IAGWC) standards described in Section VI., Paragraph 16 (a-d) of these Orders, are met and confirmed by the Ohio EPA. Kimberly-Clark shall maintain the West End ground water pump and treat system during its operation.
- 10. Kimberly-Clark shall evaluate the effectiveness of the West End ground-water pump and treatment system in preventing further migration of contamination from sources at the Site in accordance with the following provisions:
 - a. Within 45 days of the issuance of these Orders, Kimberly-Clark shall submit a work plan for evaluating the effectiveness of the West End ground-water pump and treatment system in preventing further migration of contamination from sources at the Site. The evaluation shall include the measurement of aquifer properties at the Site including vertical and horizontal hydraulic conductivity, specific yield, and gradient. The evaluation shall estimate the capture zone of the pumping wells using both empirical data collected from the Site and mathematical modeling. All models used to estimate the capture zones of the pumping wells shall be calibrated and verified. Scale drawings showing the estimated vertical and horizontal extent of the capture zones for the pumping wells shall be prepared. The work plan shall include a fixed-date schedule for conducting the evaluation and submitting a final report on the evaluation to Ohio EPA.
 - b. The work plan and final report shall be subject to the review, approval, or disapproval of Ohio EPA, in accordance with the provisions set

forth in Section XI of these Orders.

- c. Upon Ohio EPA's approval of the work plan, Kimberly-Clark shall implement the Work detailed therein in accordance with the schedule contained in the approved work plan.
- 11. Kimberly-Clark shall collect and analyze ground-water samples from all operating pumping wells on a quarterly basis.
- 12. Kimberly-Clark shall collect and analyze ground-water samples from the following Site wells on a quarterly basis: PW-1, PW-2, PW-3, PW-4, KMW-5, KMW-6, KMW-7, KMW-8, KMW-9, EEIB-2, EEIB-4, EEIB-12, GZA-1, RS04, and RS06.
- 13. Kimberly-Clark shall continue to collect water level measurements from the following Site wells on a quarterly basis: PW-1, PW-2, PW-3, PW-4, KMW-1, KMW-2, KMW-3, KMW-4, KMW-5, KMW-6, KMW-7, KMW-8, KMW-9, EEIB-2, EEIB-4, EEIB-7, EEIB-8, EEIB-9, EEIB-11, EEIB-12, GZA-1, GZA-2, RS04, and RS06.
- 14. Ground water samples shall be analyzed by EPA Method SW846-8260, with low detection limits (25 ml purge).
- 15. Ohio EPA may modify any portion of the ground-water monitoring program. Ohio EPA shall notify Kimberly-Clark in writing if any such modifications are determined to be warranted.
 - 16. **IAGWC** standards shall be determined according to the following procedure:
 - a. The Site contaminants of concern ("COC") are trichloroethene and vinyl chloride.
 - b. For each COC, identify the corresponding maximum contaminant level ("MCL") and calculate the residential water carcinogenic effects remediation goal (10⁻⁵) and the residential water non-carcinogenic effects remediation goal (HI=1) using equations 1' and 2' on pages 21 and 22 of the Risk Assessment Guidance for Superfund, Part B, found in Attachment B of these Orders. When using equation 1', substitute a target excess individual lifetime cancer risk value of 10⁻⁵ into the equation.
 - c. For each COC, select the lowest concentration from among the MCL,

the carcinogenic risk-based remediation goal, and the non-carcinogenic risk-based remediation goal.

- d. The value obtained in item "c" above becomes the IAGWC standard unless the value is less than 1.0 part per billion in which case 1.0 part per billion becomes the IAGWC standard.
- 17. Kimberly-Clark may petition the Ohio EPA to cease operation of the West End ground-water pump and treatment system should ground-water sampling and analysis indicate that the concentrations of each COC are less than the IAGWC standards for four consecutive quarters in the following wells: PW-1, PW-2, PW-3, PW-4, KMW-6, KMW-7, KMW-8, KMW-9, EEIB-2, EEIB-12, RS04, and RS06. Kimberly-Clark shall resample the ground-water approximately one week following receipt of the fourth consecutive quarter's sampling results to confirm whether the concentrations of each COC are less than the IAGWC standards. Following receipt of written concurrence from the Ohio EPA that the concentrations of each COC are less than the IAGWC standards, Kimberly-Clark may cease operation of the West End ground-water pump and treatment system.
- 18. Following the Ohio EPA-approved cessation of operation of the West End ground-water pump and treatment system, Kimberly-Clark shall continue to maintain the treatment system in such a manner as to allow for the resumed operation of the treatment system, if resumed operation of the system is required by Ohio EPA due to any exceedance of the IAGWC standards.
- 19. Following Ohio EPA-approved cessation of operation of the West End ground-water pump and treatment system, Kimberly-Clark shall continue ground-water analytical sampling on a quarterly basis for Site wells listed in Section VI., Paragraphs 12 and 13 of these Orders. If Kimberly-Clark's sampling results indicate that IAGWC standards have been exceeded during any sampling event, Kimberly-Clark shall resample the ground water approximately one week following receipt of the initial sampling results to confirm whether IAGWC standards have been exceeded. If the resampling results confirm that the IAGWC standards have been exceeded, Kimberly-Clark shall resume operation of the West End ground-water pump and treatment system, including the resumption of quarterly water level measurements, and continue quarterly ground-water analytical sampling. Kimberly-Clark shall notify Ohio EPA within twenty-four (24) hours of the resumption of operation of the treatment system if the sampling and resampling, as described above, show that the IAGWC standards have been exceeded.
- 20. These Orders shall not be eligible for termination pursuant to Section XVI, Termination, until eight (8) consecutive quarters of ground-water sampling and analysis

have demonstrated continued compliance with the IAGWC standards.

VII. SAMPLING AND DATA AVAILABILITY

- 21. Kimberly-Clark shall notify Ohio EPA not less than fifteen (15) days in advance of all sample collection activity. Kimberly-Clark shall allow split and/or duplicate samples to be taken by Ohio EPA. Ohio EPA shall also have the right to take any additional samples it deems necessary.
- 22. Within seven (7) days of a request by Ohio EPA, Kimberly-Clark shall submit to Ohio EPA copies of the results of all sampling and/or tests or other data, including raw data and original laboratory reports, generated by or on behalf of Kimberly-Clark with respect to the Site and/or the implementation of these Orders. Kimberly-Clark may submit to Ohio EPA any interpretive reports and written explanations concerning the raw data and original laboratory reports. Such interpretive reports and written explanations shall not be submitted in lieu of original laboratory reports and raw data. Should Kimberly-Clark subsequently discover an error in any report or raw data, Kimberly-Clark shall promptly notify Ohio EPA of such discovery and provide the correct information within seven (7) days.

VIII. ACCESS

- 23. Ohio EPA shall have access at all times to the Site and any other property to which access is required for the implementation of these Orders, to the extent access to the property is controlled by Kimberly-Clark. Access under these Orders shall be for the purposes of conducting any activity related to these Orders including, but not limited to the following:
 - a. monitoring the Work;
 - b. conducting sampling;
- c. inspecting and copying records, operating logs, contracts, and/or other documents related to the implementation of these Orders;
- d. conducting investigations and tests related to the implementation of these Orders; and
 - e. verifying any data and/or other information submitted to Ohio EPA.

- 24. To the extent that the Site or any other property to which access is required for the implementation of these Orders is owned or controlled by persons other than Kimberly-Clark, Kimberly-Clark shall use its best efforts to secure from such persons access for Kimberly-Clark and Ohio EPA as necessary to effectuate these Orders. Copies of all access agreements obtained by Kimberly-Clark shall be provided promptly to Ohio EPA. If any access required to effectuate these Orders is not obtained within thirty (30) days of the effective date of these Orders, or within thirty (30) days of the date Ohio EPA notifies Kimberly-Clark in writing that additional access beyond that previously secured is necessary, Kimberly-Clark shall promptly notify the Ohio EPA in writing of the steps Kimberly-Clark has taken to attempt to obtain access.
- 25. Notwithstanding any provision of these Orders, the State of Ohio retains all of its access rights and authorities, including enforcement authorities related thereto, under any applicable statute or regulations.

IX. DESIGNATED SITE COORDINATORS

- 26. Within five (5) days of the effective date of these Orders, Kimberly-Clark shall notify Ohio EPA, in writing, of the name, address and telephone number of its designated Site Coordinator and Alternate Site Coordinator. If a designated Site Coordinator or Alternate Site Coordinator is changed, the identity of the successor shall be given to the other Party at least five (5) days before the changes occur, unless impracticable, but in no event later than the actual day the change is made.
- 27. To the maximum extent practicable, except as specifically provided in these Orders, communications between Kimberly-Clark and Ohio EPA concerning the implementation of these Orders shall be made between the Site Coordinators. Kimberly-Clark's Site Coordinator shall be available for communication with Ohio EPA regarding the implementation of these Orders for the duration of these Orders. Each Site Coordinator shall be responsible for assuring that all communications from the other Party are appropriately disseminated and processed. Kimberly-Clark's Site Coordinator or alternate shall be present on the Site or on call during all hours of Work at the Site.
- 28. Without limitation of any authority conferred on Ohio EPA by statute or regulation, Ohio EPA Site Coordinator's authority includes, but is not limited to the following:
- a. taking samples and directing the type, quantity and location of samples to be taken by Kimberly-Clark pursuant to an approved work plan;

- b. observing, taking photographs, or otherwise recording information related to the implementation of these Orders, including the use of any mechanical or photographic device;
- c. directing that the Work stop whenever the Site Coordinator for Ohio EPA determines that the activities at the Site may create or exacerbate a threat to public health or safety, or threaten to cause or contribute to air or water pollution or soil contamination;
- d. conducting investigations and tests related to the implementation of these Orders;
- e. inspecting and copying records, operating logs, contracts and/or other documents related to the implementation of these Orders; and
 - f. assessing Kimberly-Clark's compliance with these Orders.

X. PROGRESS REPORTS AND NOTICE

- 29. Unless otherwise directed by Ohio EPA, Kimberly-Clark shall provide quarterly progress reports to the Ohio EPA concerning the work carried out by Kimberly-Clark during the previous quarter. The quarters shall be divided into the following reporting periods: the First Quarter shall be months January through March; the Second Quarter shall be months April through June; the Third Quarter shall be months July through September; and the Fourth Quarter shall be months October through December. The quarterly progress reports shall be submitted by the tenth (10) day of the first month following the reporting period. The quarterly progress reports shall include, at a minimum, the following information:
 - a. a description of the status of the Work and progress to date;
- b. summaries of all changes made in the interim measures during the reporting period;
- c. summaries of all contacts with representatives of the City of Troy, local community, public interest groups, county and state agencies, and government during the reporting period concerning the Work being done as a result of these Orders;
- d. summaries of all relevant findings including, but not limited to, water level measurements, flow maps, etc., from Site wells listed in Section VI., Paragraph 13 of these

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Orders;

- e. summaries of all relevant findings including, but not limited to, analytical sampling results, etc., from Site wells listed in Section VI., Paragraphs 11 and 12 of these Orders:
- f. an accounting of how much contaminated ground water was pumped during the reporting period;
 - g. a description of the difficulties encountered during the reporting period;
 - h. a description of the actions taken to rectify any difficulties encountered;
 - i. a description of activities planned for the next quarter; and
 - j. an identification of changes in key project personnel.
- 30. Progress reports and all other documents required to be submitted pursuant to these Orders shall be sent by certified mail return receipt requested, or equivalent, to the following address, or to such other address as directed by Ohio EPA:

Ohio Environmental Protection Agency Lazarus Government Center P.O. Box 1049 Columbus, Ohio 43216-1049 ATTN: DERR Records Room

Ohio EPA
Southwest District Office
401 East Fifth Street
Dayton, Ohio 45402
ATTN: Brown Bridge Site Coordinator, DERR

XI. REVIEW OF SUBMITTALS

31. Ohio EPA will review any work plan, report, or other item required to be submitted pursuant to these Orders. Upon review, Ohio EPA may in its sole discretion: (a) approve the submission in whole or in part; (b) approve the submission upon specified conditions; (c) modify the submission; (d) disapprove the submission in whole or in part, notifying Kimberly-Clark of deficiencies; or (e) any combination of the above.

- 32. In the event of Ohio EPA's approval, approval upon condition, or modification of any submission, Kimberly-Clark shall proceed to take any action required by the submission as approved, conditionally approved, or modified by Ohio EPA.
- 33. In the event that Ohio EPA initially disapproves a submission, in whole or in part, and notifies Kimberly-Clark of the deficiencies, Kimberly-Clark shall, within fourteen (14) days, or such longer period of time as specified by Ohio EPA in writing, correct the deficiencies and resubmit to Ohio EPA for approval a revised submission. The revised submission shall incorporate all of the changes, additions, and/or deletions specified by Ohio EPA in its notice of deficiency. Notwithstanding the notice of deficiency, Kimberly-Clark shall proceed to take any action required by a non-deficient portion of the submission.
- 34. In the event that Ohio EPA disapproves a revised submission, in whole or in part, Ohio EPA may require Kimberly-Clark to correct the deficiencies and incorporate all changes, additions, and/or deletions within fourteen (14) days, or such period of time as specified by Ohio EPA in writing. Or, in the alternative, Ohio EPA retains the right to terminate these Orders, perform any additional remediation, conduct further Investigation, and/or enforce the terms of these Orders.
- 35. All work plans, reports, or other items required to be submitted to Ohio EPA under these Orders shall, upon approval by Ohio EPA, be deemed to be incorporated in and made an enforceable part of these Orders. In the event that Ohio EPA approves a portion of a work plan, report, or other item, the approved portion shall be deemed to be incorporated in and made an enforceable part of these Orders.

XII. RESERVATION OF RIGHTS

- 36. Ohio EPA reserves the right to seek legal and/or equitable relief to enforce the terms and conditions of these Orders, including penalties against Kimberly-Clark for noncompliance with these Orders.
- 37. Ohio EPA reserves the right to terminate these Orders and/or perform all or any portion of the Work or any other measures, including but not limited to conducting further investigation and/or remediation, in the event that the requirements of these Orders are not wholly complied with within the time frames required by these Orders.
- 38. Ohio EPA reserves the right to take any action, including but not limited to any enforcement action, action to recover costs, or action to recover damages to natural

resources, pursuant to any available legal authority as a result of past, present, or future violations of state or federal laws or regulations or the common law, and/or as a result of events or conditions arising from, or related to, the Site. Upon termination of these Orders pursuant to Section XVI, Termination, Kimberly-Clark shall have resolved its liability to Ohio EPA only for the Work performed pursuant to these Orders.

XIII. ACCESS TO INFORMATION

- 39. Kimberly-Clark shall provide to Ohio EPA, upon request, copies of all documents and information within its possession or control or that of its contractors or agents relating to events or conditions at the Site including, but not limited to manifests, reports, correspondence, or other documents or information related to the Work.
- 40. Kimberly-Clark may assert a claim that documents or other information submitted to the Ohio EPA pursuant to these Orders is confidential under the provisions of Rule 3745-50-30(A) of the Ohio Administrative code or Section 6111.05(A) of the Ohio Revised Code. If no such claim of confidentiality accompanies the documents or other information when it is submitted to Ohio EPA, it may be made available to the public without notice to Kimberly-Clark.
- 41. Kimberly-Clark may assert that certain documents or other information are privileged under the attorney-client or any other privilege recognized by state law. If Kimberly-Clark makes such an assertion, it shall provide Ohio EPA with the following: (1) the title of the document or information; (2) the date of the document or information; (3) the name and title of the author of the document or information; (4) the name and title of each addressee and recipient; (5) a general description of the contents of the document or information; and (6) the privilege being asserted by Kimberly-Clark.
- 42. No claim of confidentiality shall be made with respect to any data, including but not limited to, all sampling, analytical monitoring, or laboratory or interpretive reports.
- 43. Kimberly-Clark shall preserve for the duration of these Orders and for a minimum of ten (10) years after its termination, all documents and other information within its possession or control, or within the possession or control of its contractors or agents, which in any way relate to the Work, notwithstanding any document retention policy to the contrary. Kimberly-Clark may preserve such documents by microfiche, or other electronic or photographic device. At the conclusion of this document retention period, Kimberly-Clark shall notify Ohio EPA at least sixty (60) days prior to the destruction of these documents or other information; and upon request, shall deliver such documents and other

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information to Ohio EPA.

XIV. OTHER CLAIMS

44. Nothing in these Orders shall constitute or be construed as a release from any claim, cause of action, or demand in law or equity against any person, firm, partnership, or corporation, not subject to these Orders for any liability arising from, or related to, events or conditions at the Site.

XV. EFFECTIVE DATE AND SUBSEQUENT MODIFICATION

- 45. The effective date of these Orders shall be the date on which these Orders are entered in the Journal of the Director of Ohio EPA.
- 46. These Orders may be modified by Ohio EPA. Modifications shall be in writing and shall be effective on the date entered in the Journal of the Director of Ohio EPA.

XVI. TERMINATION

47. These Orders shall terminate upon Ohio EPA's approval in writing of Kimberly-Clark's written certification to Ohio EPA that all Work required to be performed under these Orders has been completed. The termination of these Orders shall not affect the terms and conditions of Section XII, Reservation of Rights, Section XIII, Access to Information, and Section XIV, Other Claims.

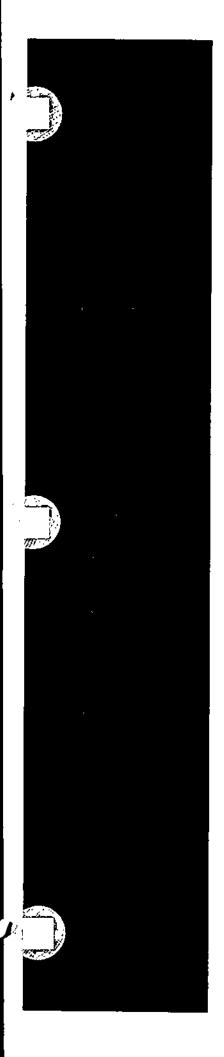
IT IS SO ORDERED:

Christopher Jones, Director

Ohio Environmental Protection Agency

3-12-01

Date



SITE CLOSURE REPORT FORMER BROWN-BRIDGE FACILITY TROY, OHIO

'n

February 2001

FEB 15 2001
SOUTHWEST DISTRICT

PREPARED FOR:

KIMBERLY-CLARK CORPORATION ROSWELL, GEORGIA

PREPARED BY:

Steve McFadden

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I. INTRODUCTION AND SITE HISTORY

The former Brown-Bridge facility (now Spinnaker Coating) manufactures pressure-, moistureand heat-sensitive adhesive stock for labels, stamps and related items. The facilities consist of plants at two sites in Troy, Ohio. Plant 1, located at 518 East Water Street, is the original site at which Brown-Bridge began operations in 1928. Plant 1 expanded over the years to include five connected buildings on an approximately 5-acre property parallel to the Great Miami River.

Kimberly-Clark Corporation owned and operated the facility from 1971 until 1994 when the property was sold. Environmental assessments were conducted as part of the property sale. The property assessments included test drilling, monitoring well installation, soil and groundwater sampling and analyses. Impacted soil and groundwater were first discovered in October 1993 as part of these assessments. A second phase of testing in October and November 1993 delineated the extent of impact to soil and groundwater on the Brown-Bridge property (Applied Engineering & Science (AES), November 1993). Additional investigations were completed in July 1994 that confirmed the extent of soil and groundwater impact on the Brown-Bridge property and included off-site sampling between the facility and the Great Miami River (AES, August 1994).

The investigations focused on known areas of environmental concern including hazardous and nonhazardous materials storage and handling locations. These areas were:

- Bulk Storage Area located in the west parking lot, this area contained aboveground tanks for the storage of fuel oil, virgin and reclaimed toluene and methanol.
- Hazardous Waste Storage Area located next to the Bulk Storage area, this area
 was used for temporary storage of drums of spent solvents and other hazardous
 materials until they were removed from the property.
- Former Gasoline UST (400 gallons) formerly located on the east side of the Bulk Storage area, removed in 1988.

- Former Fuel Oil UST (3,000 gallons) formerly located in the east shipping dock, removed in 1986.
- Closed Fuel Oil UST (15,000 gallons) located under building 2, closed in place (filled with concrete) in 1988.
- Toluene Recovery System located on the east side of the Brown-Bridge building in the east parking lot, used to reclaim toluene from the paper finishing operation.
- Former Toluene In-Ground Tank (3,000 gallons) located on the east side of the facility and used as part of the toluene recovery system, removed in 1988 along with surrounding soil impacted by a toluene release.
- Nonhazardous Waste Storage Area located adjacent to the west end of the Brown-Bridge Building in the west parking lot, used for storage of empty drums and drums of nonhazardous adhesive materials.
- Spill Tank located inside the east parking lot gate, used for containment of spills from the east loading dock.
- Bulk Unloading Area located behind (north) the Brown-Bridge building, approximately half way between the two ends, at the end of a former rail spur where bulk materials were unloaded.
- In-Ground Wastewater Aeration Tanks located on the east side of the Brown-Bridge property, used for pre-treatment of wastewater prior to discharge to the City of Troy POTW.

Results of these investigations indicated the following four areas where releases had impacted soil and groundwater quality:

- In and downgradient of the Bulk Storage area (West End), soil and groundwater were impacted by releases of fuel oil and toluene.
- In and downgradient of the Nonhazardous Waste Storage area (West End), soil and groundwater were impacted by a release of volatile organic compounds (VOCs).
- In and downgradient of the former in-ground toluene tank (East End), groundwater was impacted by a release of toluene.

 On the north side of the in-ground aeration tank (East End), groundwater was impacted by a release of toluene.

The Ohio Environmental Protection Agency (OEPA) was notified of the releases. After a series of correspondence and meetings, OEPA concurred that Kimberly-Clark should proceed with a voluntary remediation of the site. Soil and groundwater remediation began in April 1995 (AES, November 1995). Tanks in the Bulk Storage area were removed and a new bulk storage facility was constructed on the east side of the Brown-Bridge property. Impacted soil in the Bulk Storage and Nonhazardous Waste Storage areas was excavated, removed and replaced with clean fill. Two separate groundwater remediation systems were installed, one system for remediation of the two groundwater contaminant plumes present on the west side of the facility and one system for remediation of the two groundwater contaminant plumes on the east side of the facility. The two systems were constructed in the summer of 1995 and began operation in August 1995.

The groundwater treatment system on the East End of Brown-Bridge was an air sparging/vapor extraction system consisting of four air injection wells and five vapor extraction wells. Toluene is the only targeted groundwater constituent in the two contaminant plumes. Air is injected below the water table using an oilless compressor and removed above the water table with a vacuum pump. Vapor is discharged directly to the atmosphere.

Quarterly sampling and analysis of groundwater monitoring wells indicated that clean-up goals were reached in February 1997. As a result, air sparging was stopped in March 1997. Vapor extraction continued until January 1998 while quarterly sampling and analyses continued to confirm results. Groundwater remediation on the East End of Brown-Bridge is now complete.

The groundwater treatment system on the West End of Brown-Bridge is a pump-and-treat system that includes four pumping wells to extract impacted groundwater, a separator tank to remove recovered fuel oil, an air stripper to remove VOCs and discharge of the treated water. Several operational changes have been made since system start-up in August 1995. Initially, exhaust from the air stripper was filtered through carbon canisters prior to discharge to the

atmosphere. Sampling conducted during the first four months of operation indicated that the canisters were not necessary to meet air permit limitations. The carbon canisters were removed in December 1995.

The width of the plumes decreased as remediation progressed. As a result, the pumping well located farthest west was no longer needed and was replaced as an extraction point by a well closer to the center of the contaminant plume in September 1996. Minimal amounts of fuel oil were recovered in the early months of system operation and it became apparent that most of the fuel oil was removed during excavation. Therefore, the separator tank was taken off line in June 1997. Groundwater from the pumping wells now goes directly to the air stripper for treatment. Treated water discharge was originally to the City of Troy POTW. In 1997, Kimberly-Clark applied for and received an NPDES discharge permit from OEPA. Discharge of treated groundwater has been to the Great Miami River since June 1997.

Quarterly sampling and analysis of downgradient monitoring wells indicates that remediation efforts have greatly reduced constituent concentrations. Analytical results from the most recent four quarters (March, June, September and December 2000) were below groundwater clean-up goals or background concentrations for all constituents. Groundwater remediation on the West End of Brown-Bridge is now also complete.

Kimberly-Clark has been providing OEPA with copies of all analytical data and updates on the progress of the remediation on a regular basis. The most recent of these was in August of 2000 (HydroVision, August 4, 2000). The purpose of this report is to provide an update of site remediation activities during the second half of 2000 and to document completion of the groundwater remediation activities at the former Brown-Bridge facility.

II. SUMMARY OF SECOND HALF 2000 ACTIVITIES

Groundwater remediation continued on the West End of the facility throughout the second half of 2000. Groundwater samples were collected and analyzed in September and December. The groundwater extraction and treatment system operated continuously, except for brief periods of routine maintenance, extracting, treating and discharging water to the Great Miami River in compliance with the NPDES permit.

A. Groundwater Monitoring Results

Quarterly groundwater sampling of monitoring wells continued through the second half of 2000. Downgradient wells, including both monitoring and extraction wells, were sampled in September 2000. All West End monitoring, including the wells listed above and background monitoring wells EEIB-4, GZA-1 and KMW-5 were sampled in December 2000. Volatile organic constituents present in groundwater continue to be consistent with the analytical history of the site; however, concentrations are below either clean-up goals established for the facility or background concentrations. A summary table of groundwater analytical data for the site from October 1993 through December 2000 is included as Table 1, Appendix B. Laboratory analytical reports for the September and December 2000 groundwater sampling events at the facility are included in Appendix C.

B. Groundwater Treatment System Operation

The groundwater treatment system operated normally throughout the second half of 2000 and through January 2001. From July 2000 through January 2001, 4.82 million gallons of water were extracted and treated. Operation was continuous with the exception of periodic maintenance and repairs during which the system was shut down for short periods. Treated groundwater is discharged to the Great Miami River. All discharge parameters were in

compliance with the NPDES permit (# 1IN00260) for the July 2000 through January 2001 period.

III. EVALUATION OF REMEDIATION RESULTS

A. East End Groundwater Remediation

As previously stated, the East End groundwater remediation system targeted two small areas of impacted by toluene. Toluene is the only constituent know to have been released on the East End as a result of past facility operations. Other constituents, specifically chlorinated VOCs, are known to be in groundwater as it enters the East End of the facility property from up gradient. An air sparging/SVE system was in operation from August 1995 to January 1998.

Groundwater clean-up goals were established for the site prior to the start of remediation. (AES, November 1995, Table 4). Table 2, Appendix B, summarizes the four quarters of groundwater analytical results in calendar year 1997. Toluene concentrations have been reduced to below laboratory detection limits in samples from all East End monitoring wells for the four quarterly sampling events in 1997. Figures 1 and 2, Appendix A, illustrate graphically the reduction in toluene concentrations during the course of the remediation for wells in the former aeration tank plume (EEIB-8, Figure 1) and former in-ground tank plume (EEIB-9, Figure 2). All chlorinated VOCs were also below clean-up goals with the exception of tetrachloroethene (PCE). However, the highest concentrations of this constituent were detected in samples from KMW-1 and GZA-2, both upgradient wells (see Figures 3 and 4, Appendix A). It is apparent that PCE enters the facility property with groundwater flow from an off-site source. The remediation system was shut down in January 1998 because remediation goals have been met and remediation is complete.

B. West End Groundwater Remediation

Groundwater on the West End of the facility was impacted by releases of toluene and fuel oil from the Bulk Storage area and by chlorinated VOCs in the vicinity of the Nonhazardous Storage area. Toluene and fuel oil were stored in the Bulk Storage area. The conclusion of a release of chlorinated VOCs on the property, however, was based on higher than background concentrations downgradient of the Nonhazardous Storage prior to remediation. Fuel oil

constituents were apparently remediated during removal of impacted soil in April 1995. Only very low concentrations of fuel oil constituents were detected after the soil removal and indicators of fuel oil were dropped from groundwater analyses after 1996 (note, however, that polynuclear aromatic hydrocarbon (PAH) analyses are still required for the NPDES permit, although there has been only one minor detection in the treatment system influent since discharge to the Great Miami River began in June 1997).

1. Qualitative Evaluation -

Table 3, Appendix B, summarizes the four quarters of groundwater analytical results in calendar year 2000. Toluene concentrations were below laboratory detection limits in samples from all East End monitoring wells for the four quarterly sampling events in 1997. Figure 5, Appendix A, illustrates graphically the effect of remediation on toluene in a well located downgradient of the toluene tank in the former Bulk Storage area. Concentrations of other aromatic hydrocarbons (benzene, ethylbenzene and xylenes) and most chlorinated VOCs have also been reduced to below clean-up standards for the last four consecutive quarters or longer.

However, some chlorinated VOCs, most notably PCE, continue to migrate onto the facility property. PCE, trichloroethene (TCE) and vinyl chloride continue to be present in groundwater samples from both upgradient and downgradient wells in concentrations exceeding clean-up goals. Figures 6 and 7, Appendix A, illustrate PCE concentrations in two monitoring wells (EEIB-4 and GZA-1, respectively) located near Water Street, the upgradient property boundary. Samples from these two wells have contained concentrations of PCE exceeding the clean-up goal for the entire period of record. Figures 8 and 9, Appendix A, graphically illustrate the concentrations of PCE and TCE in samples from KMW-7 over time. Potentiometric maps of the West End area (see AES, March 1998, Figures 11 through 14) indicate that KMW-7, although located north of the former Bulk Storage area, is upgradient of the areas impacted by releases from this facility. There is only a small section of the west parking lot between KMW-7 and the upgradient property boundary with Hobart Cabinet. PCE in KMW-7 groundwater samples (Figure 8) illustrates a textbook example of a slug of PCE moving with groundwater flow across the facility property. The concentrations of TCE versus

time mirror PCE concentrations (compare Figures 8 and 9), indicating that TCE is linked to the breakdown of PCE.

Table 4, Appendix B, lists the range of concentrations of PCE, TCE and vinyl chloride in each of the West End wells. Comparing concentrations of PCE, TCE and vinyl chloride in groundwater samples from upgradient (background) and downgradient wells, the following observations are made:

- PCE is present in highest concentrations in samples from upgradient wells representing background conditions.
- PCE concentrations decrease with migration across the facility property to the location of downgradient wells.
- Concentrations of TCE and vinyl chloride increase between the locations of upgradient and downgradient wells on the facility property.
- Downgradient concentrations, both actual and mean, of TCE and vinyl chloride are approximately one order of magnitude below PCE concentrations entering the facility property at upgradient wells.
- TCE and vinyl chloride are both breakdown products of PCE.

It is apparent that PCE is migrating onto the facility property from an upgradient source. Once on the facility property, PCE is breaking down to TCE and vinyl chloride. Geochemical conditions on the facility property favor breakdown of PCE, as evidenced by the relative abundance of chemicals in the breakdown sequence of PCE (TCE, 1,2-dichloroethene, vinyl chloride) and the relative scarcity of PCE in samples from downgradient wells. It is probable that geochemical conditions in the shallow groundwater flow regime change on the property as the northern edge of the property borders the discharge zone of the Great Miami River.

2. Statistical Evaluation -

The U.S. Environmental Protection Agency (EPA) has issued guidance for the evaluation of groundwater analytical data at RCRA facilities (EPA, 1989, 1992a and 1992b). Specifically,

the EPA recommends that when comparisons to fixed compliance standards are made, such as the maximum contaminant levels (MCLs) on which the groundwater clean-up goals for the former Brown-Bridge facility are based, that the data be evaluated with respect to confidence intervals of the mean concentration. If the standard, in this case the established clean-up goal, falls within the confidence interval of the mean of the concentrations for each well, or the confidence interval is entirely below the standard, then there is no statistically significant evidence that the mean concentration exceeds the standard.

The groundwater analytical data were statistically evaluated with respect to the clean-up goals as follows:

- Upgradient wells (EEIB-4, GZA-1, KMW-5 and KMW-7) were not evaluated with respect to clean-up goals. Water quality in these wells represents background conditions as groundwater enters the facility property and evaluation to clean-up goals is, therefore, not applicable.
- 2. Of the downgradient wells, several have not had any detections of PCE, TCE or vinyl chloride in over one year (i.e., higher concentrations were present prior to or in the early stages of remediation). Some wells, in fact, have only had a single detection of one or more of the above three constituents several years ago. Constituent concentrations in these wells were also not evaluated because these wells are assumed to be in compliance with the clean-up goals following remediation efforts (see Tables I and 4, Appendix B).
- 3. After considering items 1 and 2, TCE in KMW-9 and PW-3, and vinyl chloride in PW-3, were evaluated.
- 4. The mean and standard deviation of the log-transformed data were calculated. Normality of the data were evaluated using the Shapiro-Wilk test. Non-detects were handled in the following way:
 - a. less than 15% nondetects: one-half of the laboratory detection limit was substituted as the value of the concentration (TCE in PW-3).
 - b. 15-50% nondetects: the mean and standard deviation were corrected using Aitchison's adjustment (TCE in KMW-8 and vinyl chloride in PW-3).
- 5. The confidence interval was calculated and compared with the log of the clean-up goals for TCE and vinyl chloride.

Table 4, Appendix B, lists the mean, standard deviation and confidence interval for TCE and vinyl chloride in wells KMW-8 and PW-3. The log of the clean-up goal is within the confidence interval in each case, indicating that there is no statistically significant evidence that downgradient concentrations of TCE and vinyl chloride exceed the clean-up goals in downgradient locations.

IV. CONCLUSIONS

Groundwater remediation on the East End of the facility property was completed in January 1998 after four consecutive quarters of groundwater samples with toluene concentrations below the clean-up goals. PCE continues to migrate onto the East End from an upgradient, off-site source. The East End groundwater remediation system has not been in operation since January 1998.

Groundwater remediation on the West End of the facility property has reduced concentrations of aromatic hydrocarbons and most chlorinated VOCs to below clean-up goals for the past four consecutive quarters (year 2000). PCE is migrating onto the facility property from an off-site source. Once on the property, PCE breaks down to its daughter products TCE and vinyl chloride. Concentrations of these three constituents in groundwater beneath the former Brown-Bridge property result from the impact of background conditions and are irreducible by any remediation efforts conducted on the facility property. Furthermore, there is no statistically significant evidence that downgradient concentrations of any of these three constituents exceed the clean-up goals.

Groundwater remediation at the West End of the facility is complete. It is recommended that operation of the West End treatment system be discontinued. In addition all East and West End wells should be plugged and abandoned to eliminate the potential for the wells to become future pathways that promote the migration of surface contaminants to groundwater.

V. REFERENCES

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- Applied Engineering & Science, August 1994, Current Site Conditions and Remediation Options, Brown-Bridge Plant I, Troy, Ohio, prepared for Kimberly-Clark Corporation.
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- HydroVision, August 4, 2000, letter to L. Marshall, OEPA, from S. McFadden, HydroVision, Inc. summarizing first half 2000 groundwater remediation activities.
- U. S. Environmental Protection Agency, 1992a, Statistical Training Course for Ground-Water Monitoring Data Analysis, US EPA Office of Solid Waste, 1992, EPA/530-R93-003.
- U. S. Environmental Protection Agency, 1992b, Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Addendum to Interim Final Guidance, US EPA Office of Solid Waste, July 1992 (Draft in Statistical Training Course for Ground-Water Monitoring Data Analysis).
- U. S. Environmental Protection Agency, 1989, Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities, Interim Final Guidance, US EPA Office of Solid Waste, April 1989, EPA/530-SW89-026.

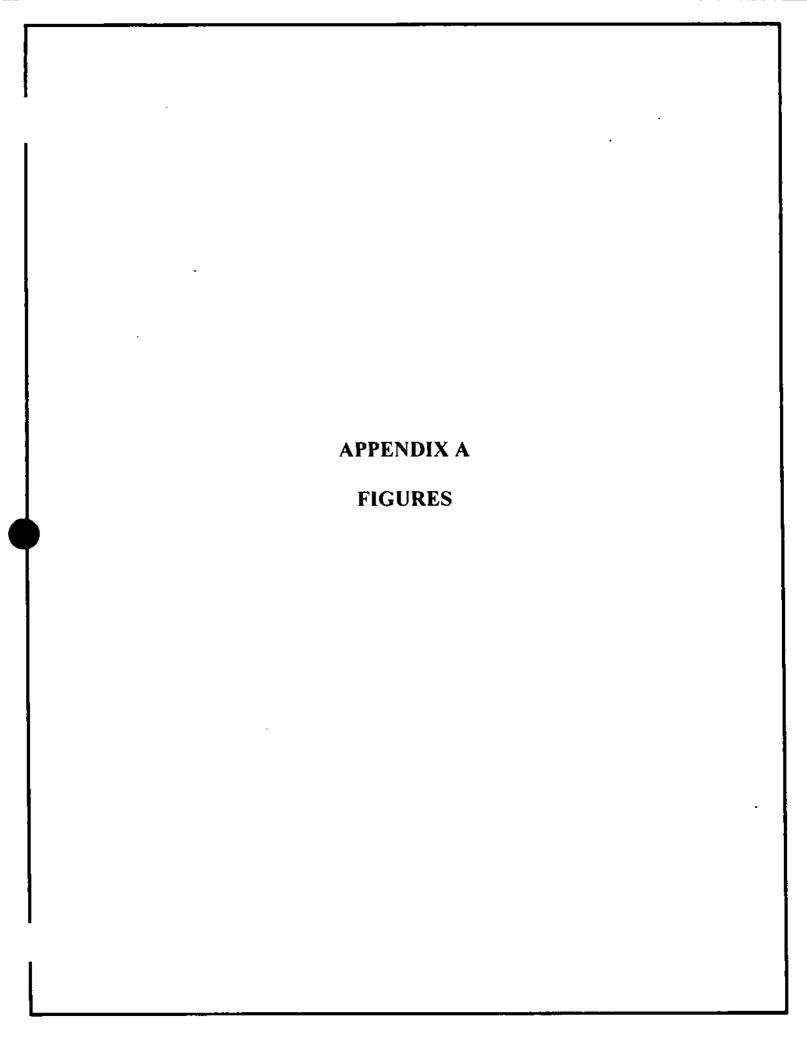


FIGURE 1
TOLUENE IN EEIB-8

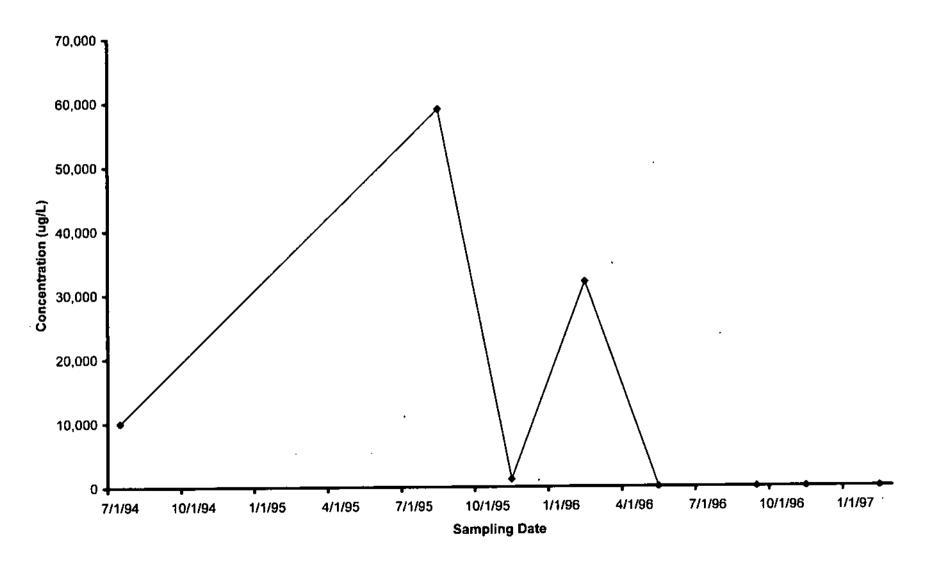


FIGURE 2.
TOLUENE IN EEIB-9

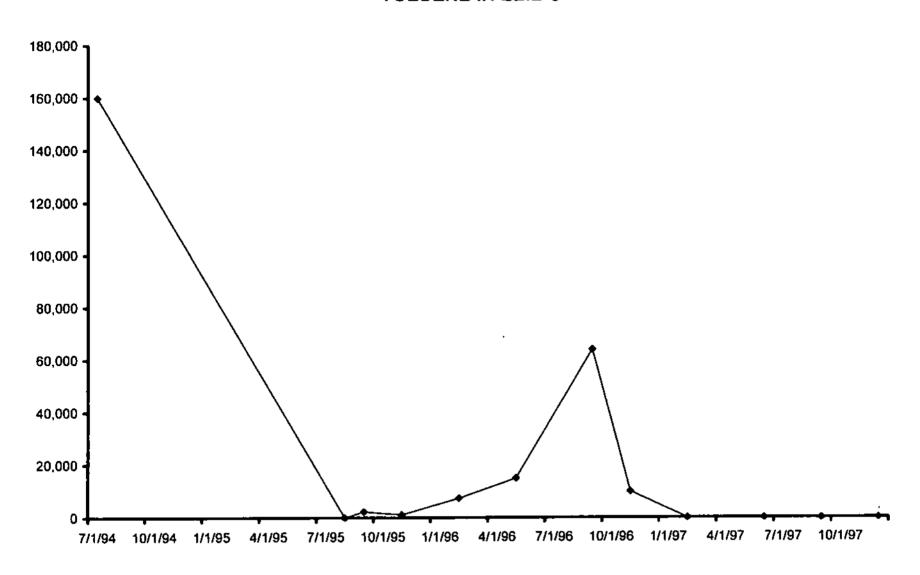


FIGURE 3
TETRACHLOROETHENE IN KMW-1

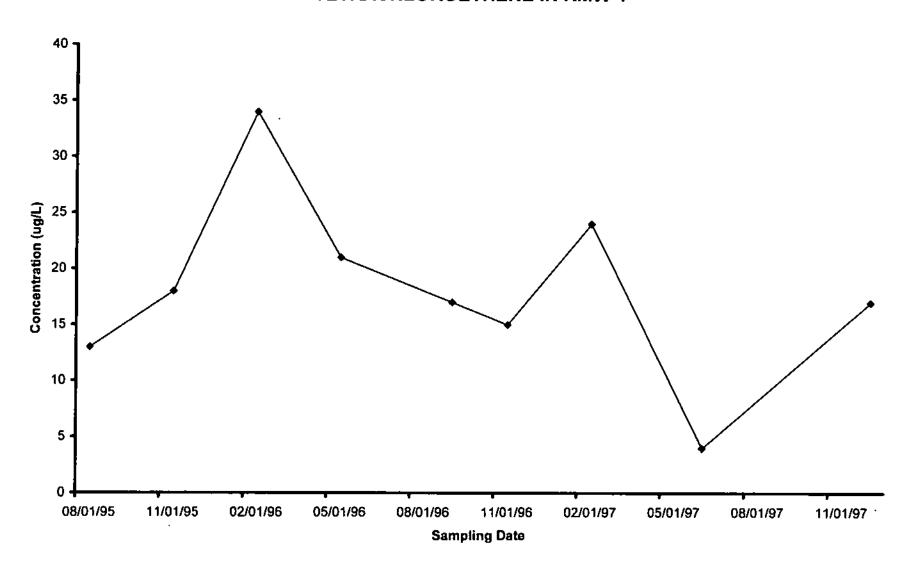


FIGURE 4
TETRACHLOROETHENE IN GZA-2

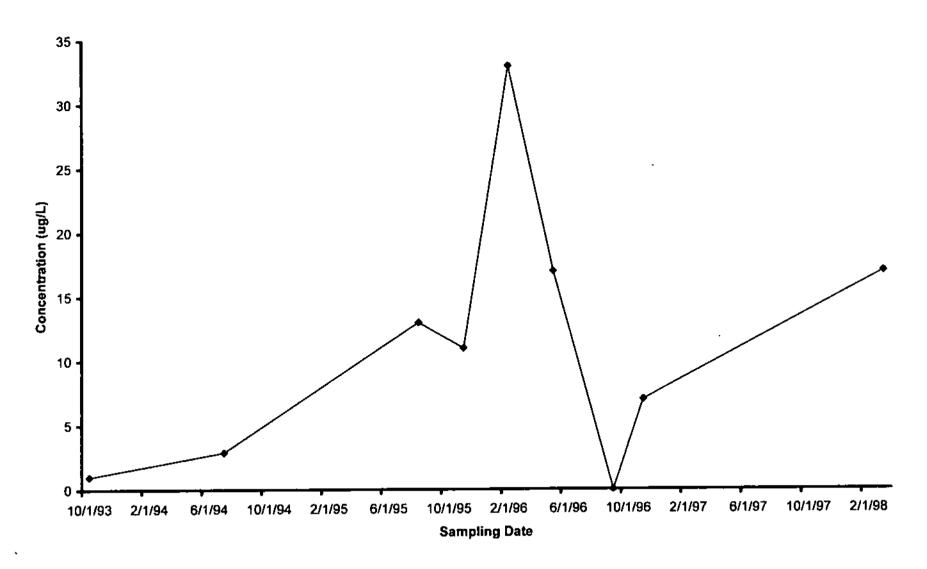


FIGURE 5
TOLUENE IN EEIB-2

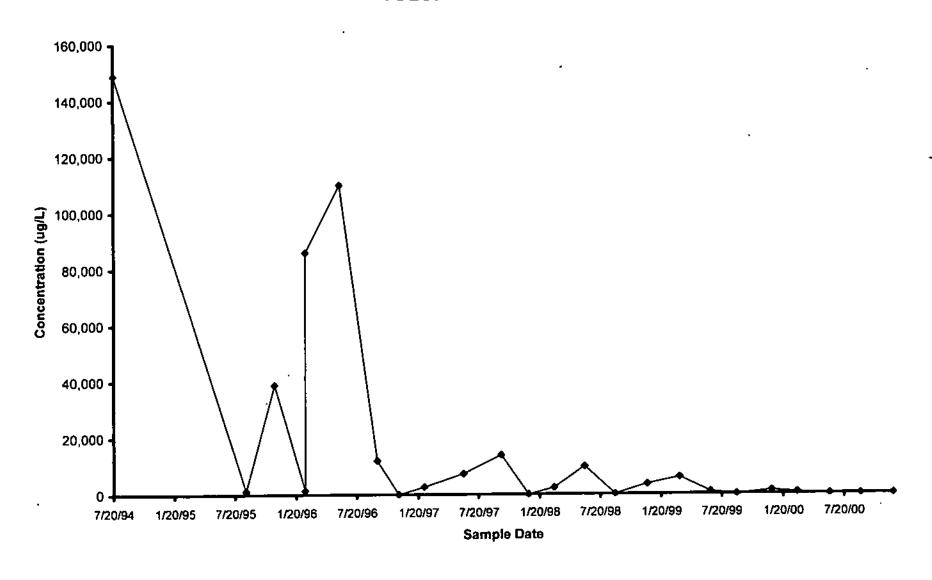


FIGURE 6
TETRACHLOROETHENE IN EEIB-4

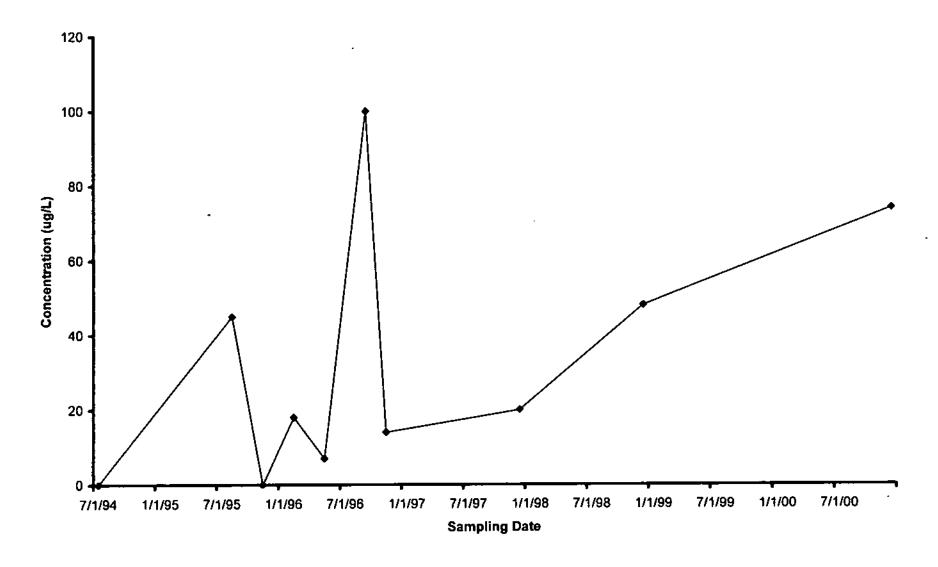


FIGURE 7
TETRACHLOROETHENE IN GZA-1

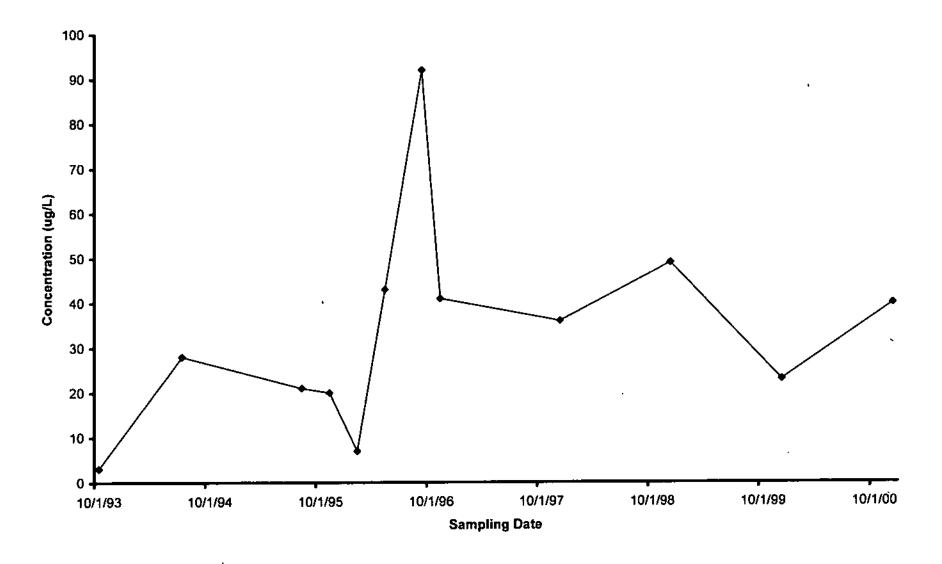


FIGURE 8
TETRACHLOROETHENE IN KMW-7

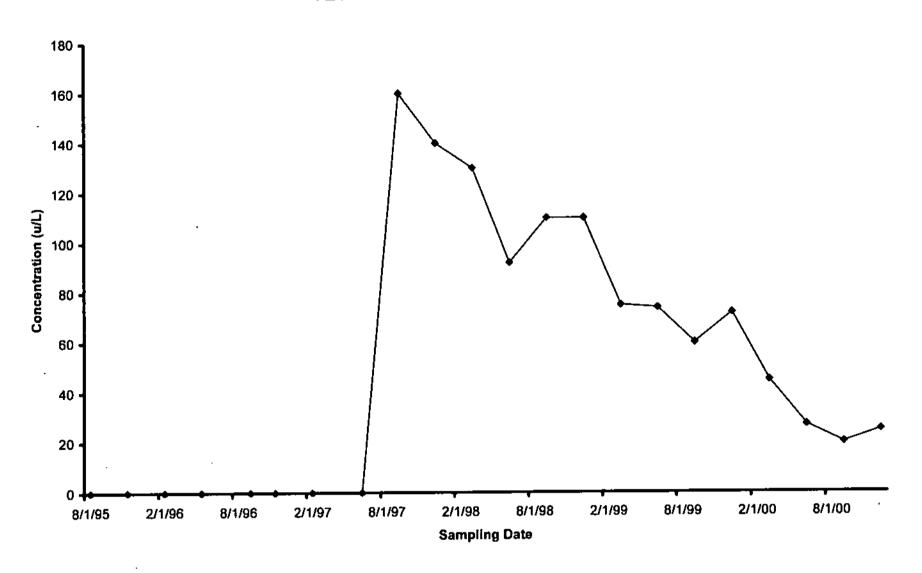
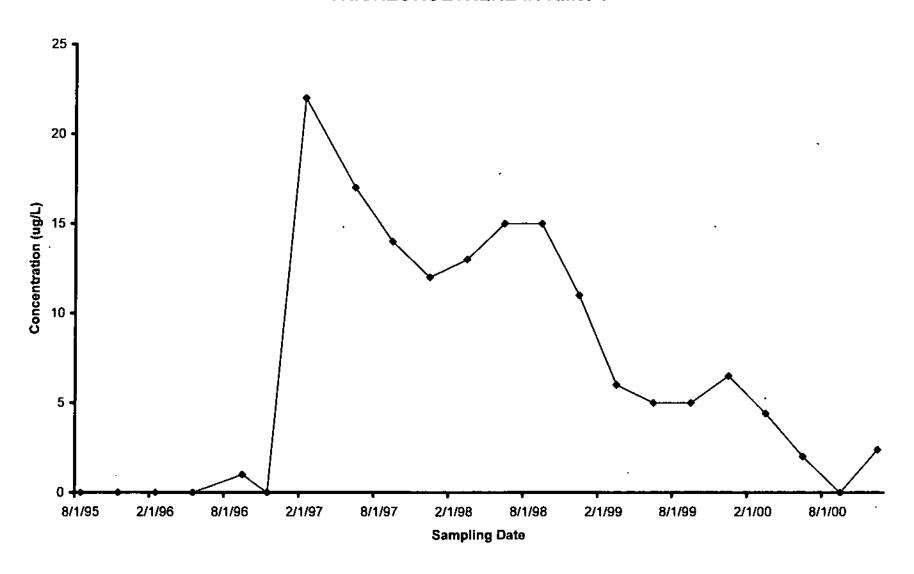
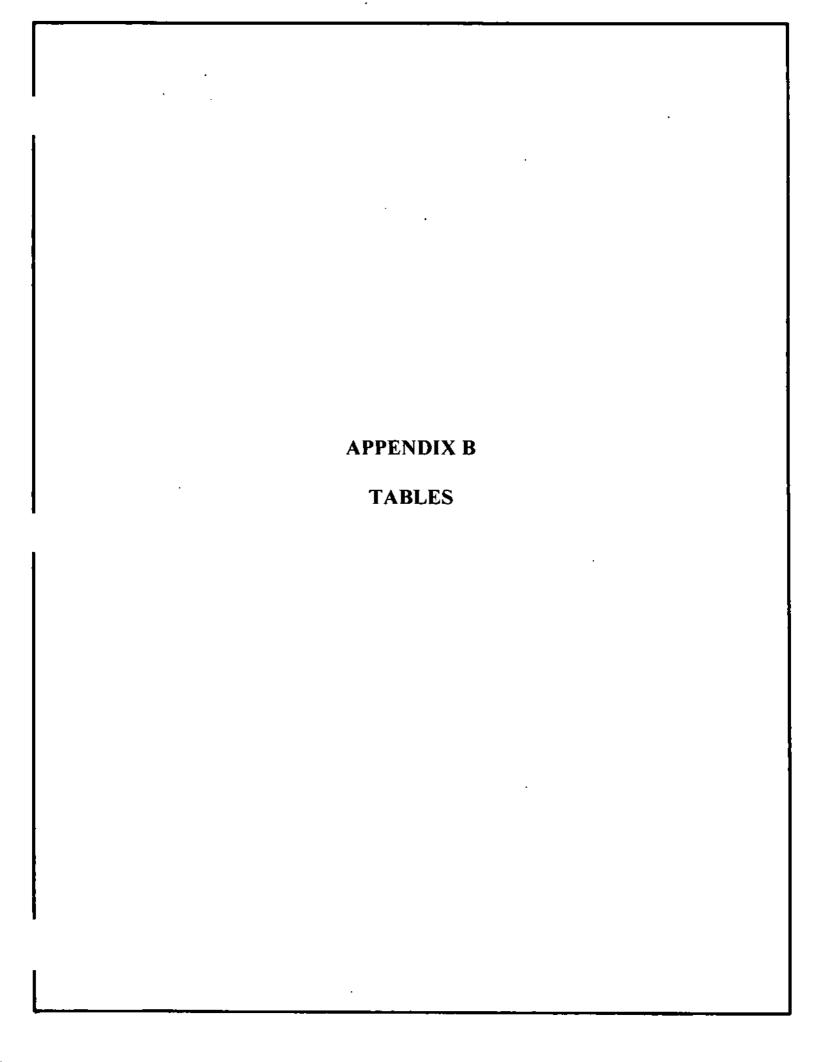


FIGURE 9
TRICHLOROETHENE IN KMW-7





rimberly-clark corporation brown bridge facility troy, ohio groundwater sampling analysis results

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KIMBERLY-CLARK CORPORATION BROWN BRIDGE FACILITY BROWN BRIDGE FACILITY TROY, ONIO GROUNDWATER SAMPLING ANALYSIS RESULTS

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				_	-		•	3	n	r,	n n				••
Q9/17/96	#L1 01	6.5	0.81		75		170		_		•		n		~
11/22/94	808 60	6.5	0.67	•	~	n	170	*1	•		=======================================	_	_		DV.
		*	•		OF .	5	n	•	п	n	-	17			
02/06/97		14													

EE/8 9 Date	100 ELEV: \$25.7 W.L.		Se Cond. confine	1,1-Oi Chiore ethene	Cis 1.2 Di-chiore attene	Tetra Crápro ethora	1.1.1 Tri- Critore struce	Tri Critore ethere	Chitoro etharie	Viend Critoride	Berzene	Taluene	Ethyl Bertzene	Tyleren 	Fetroloum Hydrocarbans
******		-		***********	***************************************	صد سعد بهر			10		- 11	160,000	38	65	
07/20/94	B1042	700	re e	21	4.1	6.3	**	1.3		<u>"</u>		,	n		R
08/23/95	812.70	6.5	2 31	•		•	n				- :	2,300			*
09/20/95	~	tw .	CV .	rer .	· ~	ne .	~	~		7	ï	1,200		ä	œ
11/14/95	81343	6.5	1,55	•	ter .	n	n	•	ū	7	•	7,400			
02/14/94	817.16	65	1.91	П	nr nr	a	•	n	n	n n	7	15,000	<u>"</u>	ä	~
05/29/96	614 40	55	0 84		rier .	•	п	n -	п	п	.,			17	~
	610 63	70	1.00	,	Of .	5	e e	A	٨	п	78	64 000	11		
09/18/94			100		-			n			n	10.000		7	**
11/22/95	-	45	100	44		- 2	-			n n	n		n	•	~
02/06/97	N	CV.		В			2					•	n	n	per .
06/04/97	815 83	6.83	0 97		~				"	~~~			n		*
09/25/97	BL1 03	7 M	1.103	n	es.	19	n			"		Ä			N
12/17/97	802.99		217	n	•	•	D.		n						

G2A 2 Dete	TOC ELEV: 626.7		DH.units	llo Cons mmhos	3,3 Or Chistro eccume	Cls 1.2 Di-chloro ethore	Tetra Chlore ethens	1,1.1 Tri- Chiero- ethere	Tin Chiore ethene	Crisco vibare	Vinyi Chlenda	Destano	Tekena managana	Ethyl Benzene maxadeessa	Zvienes anacovivies	Total Pytraleum Hydrocarbons
		•	÷1 — — K =		==10-00 pm===								0 32	ń	n	~
10/14/93	77		œ	~	ñ	n		ņ				L q		D	n	~
07/20/94	809 41			THE STATE OF THE S	7	4	29	- 6	п							
08/23/95	\$12.42		70	1.04		~	13	П.	ū	n			"			~
	B13 21		70	LOS	n	œ	11	6	•	п	n		7			
11/15/95					- 2	- 12	11					a	•	П	п	
02/16/96	611.70		4.5	1,33	п	18		"					n	n	П	N
05/29/96	#13 07		15	0.76	n	Pr	17	n				ï				THE STATE OF THE S
09/13/96	810 19		6.5	0.90		•		р		•	7					~
			65	093		n/	7		n		п	n	п	n	•	
11/22/94	# 07.55					7	13			G.			ń	•	n	
03/04/99	809 81		e.	n n		n	• • • • • • • • • • • • • • • • • • • •		•	**						

All gats in poblamiess noted

 $n=N\omega t$ detected at method distaction level $nr=N\omega t$ recorded or not lessed

RIMBERLY-CLARK CORPORATION BROWN BRIDGE FACILITY TROY, ONIO GROUNDWATER SAMPLING ANALYSIS RESULTS

	TOC ELEV: 825.9		Se Cond.	1.1-04 Creore	Cir 1,2 Distributo	Totra Chiere	Lil. Th- Cistoro-	tn Ottoro	Chlore	Vinvt	.	*	Ethyl	Xvienes	Total Petralaum Morecarbons
Deta	W L.	pH,unds	CONTRACT	AZJrisus	ethene	ethene	425/mage	ethere	ethane	Chloride	Berzene	Tokuene	******	APPEND	*********
	* **********			**********	*********	-									***********
08/22/95	#15 E3	60	0.58	•	N	Б	•	Δ.	n	n	n	п	•		
11/15/95	815 09	4.0	144		OF.	D.		а	n	•	n		•	n	ħ
02/15/96	615 20	65	0.71		N	B.			•	n	n		75	n	
05/29/94	616 78	60	0.70		CV.	n		a	n	n	n	a a	n	n	~
09/17/96	613 32	55	091	a a	W	17	5	4	n		n	٩	5	n	
11/21/94	810 43		0 92	ď	(ar	n	L	1	n		n		٨	n	P#
02/06/97			DV .	3	~	,	7	4	n	P	n		B	п	•
06/03/97	616 87	6.49	1 05	1	OY.			п	n	•		3	٥		TH'
12/17/97	810 83		1.042	-	4	n		Ď.	n	n	n	٨	Б	n	*
12/09/96	11344		1.009		CV	12	4		n	٨	n	•	n	•	PF
12/16/99	613 56		1,089	2.4	32	13	4.53	41	n		n	•	P	п	TT .
12/13/00	614 74		0 657	16	2.5	8.1	34	2.0		•	•		n	n	PF

KANY &	TOC ELEV: 825 41	p. D.C.J. mets	\$p Cond mystes	1,1-Os Chioro ythans	Os 1,2 Di-chlore ethene	Tetre Critore etrene	L.1.L Tri- Critere- ethane	Tri Créore athere	Chloro sthane	Vinvi Chloride	Benzane	Taluene responsación	Ethyl Bertzete / >	Lylenes	Total Petraleum Hydrocarbons
08/21/95	Q15 42	70	0.74			h	3	4	п			n	n		п
11/15/95	614 43	45	0.73	ï	~		3	3	0	n	4	п	n	n	•
02/16/96	1144	45	0.72	ä	er .	n	5	j	•		a	n	n	0	nr nr
05/29/94	616.96	60	0.72	ï		5	5	7	n	n	4	n	n	•	r ·
09/17/96	412 29	45	0.69	ā	œ	23	ñ	3	•	6	4	n	n	•	TT
11/21/96	610 19	51	0 87		rier .	66	1	,		п	•	n	n	•	~
02/06/97	~	or .		A	Per .	250	2	•	•		(₫.	п	•	n	T.
06/03/97	\$19,44	6.84	0 721	Я	100	58	а	4	•	п	`a´	•	п	•	N .
09/25/97	811.52	8 13	0.942	13	~		37	30	п	•	A #	п п	•	•	nv
12/17/97	8104	7 66	0 643	4	n	0	n	•	a	п	SC 8	A	п	•	N
03/04/98	612.3	CV.		•	(A	ŋ	12	12	•		p.	ń	•	•	₩
06/03/96	812.22	8 05	0 989	ď	100	n	6		n		n		п	•	~
09/02/98	811 69	7.85	1.025	e e	rv .	ń	•	•	•	•	p.	П.	n	п	n.
12/08/98	812 64	7.64	0 699	4	rier .	n	2EJ	ñ	М		•	n	q	•	~
03/15/99	B14 48	7.05	0 681	•	CVF	n	3C)	n	•	•	n	ń	n	ď	
06/16/99	813 06	6.96	061		r et	A	1)	n	а		n	•		•	N
09/02/99	\$12 59	7.46	0.707	6	rv	n	•	n	ń	•	•	n	n	-	TOTAL CONTRACTOR OF THE PARTY O
12/16/99	812.92	7.66	0 699	-	ń	Λ .	q	ñ	4	п	ń	•		•	~
03/01/00	6136	7 64	0.66	6	π	п	•	P .	•		ŋ		n	q	TV
06/06/00	4134	7,34	0 6239	•	n			n	ď		n	e e	•	•	N
09/07/00	\$13.14	4 99	0 659	•		п	•	n	В	•	ŋ	n	п	ď	12
12/11/00	\$13.19	7,35	0 733	•	n	•	ď	n	r.		ń	•	п	п	

KNOW 7				1.1 0	Cas L.Z	Tetera	1.1.1 Tri-	Tri							Tetal
-	TOC CLEV: \$26.25		Se Cond	Chiere	Ca-chilore	Chlore	Chipre-	Chiere	Creore	Vimit	_		CUM		Petroleum
Cate	W.L.	pHjunsts	COLUMBS	mthace.	403404	ethene	ethane	ethere	ntperie	Chloride	Berzere	Tollyene	Benzane	X ylenes	Hydrocarbons
	**********			******		*********	62000cs dags			***************************************		*****	**********		
08/21/95	\$ 35.14	6.3	0.71	A	CCF CCF	п	•	n	6	-		•	e.		
11/15/93	615 05	70	0.01	•	~			•		ď	•			т.	7
02/16/96	614 27	70	0.71	đ.	rv.	ń	•	n	•	e.		•			n
05/29/96	816 95	55	0 73	ď	~	n	п	٨			•	ď	a	•	or
09/17/96	613 69	6.5	0.70	•	CF	п	\$	1	٠	e e		•	•		
11/21/94	811.15	50	071	r,	•	n		•		6	•	r r	ď		œ
02/04/97	nv .	CAT.		. 1	œ	п	24	22	٠		٩	•		•	
06/03/97	619 26	7.39	0.352	4	~	n	29	17			•	٩	n		Car.
09/25/97	811.91	8 03	1 202		œ	260	2	14	٠		п	•	-		~
12/17/97	611.26	7,21	0 974	•	•	140	-	12	•		•	•			œ
03/04/98	612.99	CFF CFF	ter .	6	~	150	3	13	•	e e		•	•	•	~
06/03/98	\$13.25	8 1	1.194	q	· ·	92	4	15	6	n n	•	a		6	CV
09/02/98	612.50	7.95	1.1	•	OF .	110	•	15	٠	n	п	•		•	~
12/08/98	613 27	7.47	0.713	r,	•	110	20	11	6	п	•	-		•	œ
03/15/99	614,93	7.34	0 673	A	CF.	75	10	4		•	-	•	•	•	~
06/16/99	613 52	6.82	0 648	ď	17	74	Ħ	5	4		•		ņ	•	ar .
09/02/99	613 09	7,3	0.676	•	~	60	•	5		•		7	2	13	~
12/16/99	813 37	7 47	0713		п	72	1.43	45	•	C C		-	•	•	~
03/01/00	614 24	7.15	0.719		n	45		44	-	•	•	rs.	e.		~
06/06/00	413 97	7.63	0 973	•	п	27	a a	2	6		, R		n	n	OF .
09/07/00	613 50	7.21	0 671	ä	•	20			•	6	п		ď	В	CT CT
12/13/00	815 01	7.32	0 905		п	25	a	24		a		6	а	•	N

All data in oob unless noted

3

n = Not detected at method detection firms or = Not reported or not tested

^{8 =} Analyte detected in Laboratory method blank
0 = Duchleste samule insulvus
E = Estansted concentration - exceeds instrument calibration range
1 = Estansted concentration before quantitation lamb

Kimberly-Clark Corporation Brown Bridge Facility TROY, OHIO GROUNDWATER SAMPLING ANALYSIS RESULTS

KWW 6	TOC ELEV; #25.32 W1.	pKunits	Sa Cend mmhos	1.1-Di Critore ethane	Cis 1,2 Ch-critore ethene	Tetra Chiora ethens	1.1.1 To- Chiere- sthere	Tri Critore ethene	Chiore	Virted Crispride	Benzone	Follower	Ethyl Benzene	kylunes	Total Patroleum Hydrocarbons
	~ L.				***		42222777777				*********	2.56 1 2 7 1 1 1 1 1			***
09/23/95	814.21	6 50	0.74		er e	n	•		14		2 .	n	а	•	C C
11/15/95	814 27	4 50	0.61		-	n	a	1	10	3	1	n	n	-	~
02/15/94	413 90	6 50	0.78	2	· ·	n	a a		П	n	•	п	-	ň.	~
03/29/96	\$16.15	1 50	0.73	ā	OF .		a	n	n	,	•	n	A	•	•
09/17/96	OF CO.	6 50	0 49	3	~	ŋ	4	3.8	П	2	4	п	n	n	ex
11/21/96	809 49	5.50	0.79	3	Cr.		4		n	В	•	n	٨	n	~
02/04/97	N	· ·	~	,	~	п	Ħ	2	α	2	A	n	п	•	PF .
06/03/97	B10 26	7.06	0 596	•	**	•		2	n	n	n	n	•	n	~
09/25/97	811 00	8 57	3 034	2	•	n	•	•	6	4		ń	•		M.
12/17/97	809 96	7 25	2.177	n		n	₽,		6	n .	D	n	•	n	~
03/04/96	B11 \$4	78	~	2	**	п	A	ı	•	n	Α	•	n	٨	M.
06/03/76	812.37	8 44	1.050	•	174			п	•	n	n	п	٥	n	•
09/02/94	811.54	6 25	1 000	4	fer .	e e		2	n	•	•	ń	P	•	~
12/04/98	812.23	7.45	0.709	ń	re re	ń	n	7	n	n	•	•	٨	n	~
03/15/99	814 30	6.93	0.700	п	**	п	ń	п	n	•	n	•	•	•	~
06/16/99	812.56	6 93	0.712	•	per .	•	n	1	n	п	•	•	•	n	~
09/02/99	811.90	7.28	0.737	ZΕ	rint .	п	•	2	n	18	4	٠	n	•	iv.
12/14/99	811.65	7 45	0.709	ń	4.6	•	9	п	Α		٨	n	•		~
03/01/00	613 42	7.42	0 638	П	10	6	•	-		п		n		0	
06/06/00	013.32	7,58	0 933	n	3 6	6	4	*	•	п	n.	n	•		re
09/07/00	612.75	6 29	Q 581	п	19		•	n.	•	6	•	A		0	~
12/13/00	814.24	7 20	0 753	6	8.5	•	n	ń	Α	•	5	n	•		nr

KMW 9	100 ELEV: 025 41		Sp Cond.	1,1-Oi Creore	O+1,2 Orchiore	Tetra Crásco	L.1.1 Tn- Chlore-	Tri Cristra	Cratore	Vind Crionds	Benzene	Telwere	Clin4 Benzera	Xylenes	Total Petroleum Hydrocarbons
Date	₩L	DH/ Nusta	promitiga.	athane	depolitica.	ethere	4.tyraus	elhene	String.	CHORDS	CHINZPAR	100000			***********
-						**********									~
08/23/95	#14 41	6.5	0.74	1	**	ь		IO.	•	п.		"	ï	<u>"</u>	` -
11/15/95	814 55	6.5	0.73	3	(A	*		1.0	ŋ	7	•		?	"	12
02/15/94	11379	65	0 73		(4	n	3	20	•	•					
05/29/96	\$16.42	55	0 44	n	æ	n	e e	7	6	ņ	A				
09/17/96	813 11	4.5	0.75	5	(#	n		ı	٠	•			0	•	
11/21/96	809.76	4.5	0.05	7	~	n		•	n	4	1	u		n	
02/06/97	M	O.	itr		~	n	•	:1	ñ	2	n		•	7	77
06/03/97	918 55	6.43	0 484	n	CE .	n	2	10	*	•	n	6	n	n	nr
09/25/97	010 87	1 23	0 632	11	~	n	•	16	•	18	h		n	5	-
12/17/97	809 B1	7.13	0 634	ň	14		•	•	n	6		•	n	n	~
03/04/96	011 97	Cr.	r r	n	Č.	n	3	26	n	4	n		n	n	
06/03/96	017.35	6.04	0.994	5	78		1	17	P.	•	R	•	P	ń	M
09/02/96	#11 49	7.99	1 027	,	~	n	1	11		n	ń	n	•	η	
12/06/90	012.57	7,54	0 690	-	~	Ä	'n		n	8	•	n	•	n	RF .
03/15/99	814 75	7.04	0 668		~	n n		1	n	•	ri e	n	•	η	m*
	013 41	7.07	0 672	~	~	Ä	ii.	12	n	۵	п		Α	n	CV .
06/16/99	E1240	7.37	D 687	- :	~			'n		n	ń	n	•	n	₩
09/02/99			0 690	"			160	. i∎	n	6		•	0	ń	CF.
12/16/99	011.91	7.54			7.4	- :		2.6		n	•	n	•	п	~
03/01/00	813 79	7.52	2653							ň		ń	e	n	~
06/06/00	013 53	7.01	0 926	n			9	14	- :			n	ń	ä	•
09/07/00	#13 01	7.48	0.587	n	3.7	n.		7.4		L.iAm	- "			ř	~
12/13/00	814 31	7.19	0.767	•	4.1	n	1.4		ď		•	••	-1	*"	-

EDB 4	TOC ELEV: \$28 63		So Coro	1.1-Di Chloro	On 1.2 Decisions	Tetra Creore	1,1,1 7ri- Chiere-	Tri Chilore	Chiora	Virte	•	Teksene	Estryl Bersone	Xelenes	Total PatroHum Hydrocarbons
Dete	W.L.	pH,unda	STATE OF STREET	Wilhelms	ethene	A Compa	ethane	Classical	ethane	Chépride	Berzene				
-	-	*********		**********		*********		2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	*********						
07/20/94	813 82	R	76		п	n	П	n	-	n	ъ	п			
06/22/95	616 27	40	0.94		R	45	ń	3	•	п	ñ	ď	•	•	· ·
11/15/95	61518				n/	•	а	ter .	9	ń	n	•	п	•	~
02/15/94	625.54	A S	0.74		~	18		n	٥	q	n	η *	n	n	*
05/28/94	621 02	35	0.70		nv	7		ñ		•	n			n	ne ne
				"		100		i i		•		o o	•	n	. #
09/17/94	#1247	♦5	070	n	T.	100									· -
11/21/96	830 68	55	0.75	•	(A	14	a	,	•	п	,		7	**	
12/17/97	810 74	7.03	0 912	e e	20	20	- h	P	•	e e	ħ	п	n	n	~
12/08/96	613 72	7,55	0.776		OF .	42	n	2	•	n		•	n	•	N
12/13/00	614.45	7.12	0 696	ä	35	74	п	3 4	•		n	r	<u> </u>	, n	

All gats in poblations noted

B = Analyte detected in laboratory method blank
 D = Dushcate sample analysis
 E = Estimated concentration - exceeds instrument cabbration range
 J = Estimated concentration before buantitation briss

n = Not detected at method detection limit or = Not reported or not lessed

KIMBERLY-CLARK CORPORATION BROWN SRIDGE FACILITY TROY, OHIO GROUNDWATER SAMPLING ANALYSIS RESULTS

Cate	700 ELEV: 126 48 W.L	pH units	Rp Cond. premitips	3,3-Di Chiore ethane	Cas 1,2 De-chiore ethene	Tetra Crápro ethene	1.1.1 Tri- Chlore- ethane	Tro Chéarm etherne	Chloro ethane	Vinel Chloride	Benzene	Toluene	Estryl Benzame	X-lenes	Total Petroloum Hydrocarbons
	41144			0.5					n			79			*
07/20/94	813 44	rv 4.5	673	**	<u> </u>		2	2	- :					ä	7
08/21/95	815.30	45	077			-				7		1,800	ï	- "	
1)/19/95	\$14 69	6.5	675	•	- F	-		"		7		130	:		· · ·
02/15/96	814 20	4.5		ņ	~						-	~			**
05/29/96	\$16.64	8.5	944	П.								- 1	:		
09/17/96	813 07	70	0.70	ņ	~			0	7			2			2
11/22/96	B)Q 54	60	0 92	n	~		ū		n	n		7			
02/06/97	7		~	n	CI.	n	•		n	7)	n	n	7	n n	
06/03/97	820 37	4.0	0 536	п	~		٩	ij	n	•	•	n		n	72
09/25/97	£11.44	7.92	1,198	1	æ	п	•	\$	n	1	n	n	n	n	PF .
12/17/97	B10.54	7.29	G B72	п	16		•	•	n	Λ.	•		n	n	ter .
03/04/14	212 4	TV	~	•	~	п	•	•	n		n	ń	n	п	, re-
06/93/96	4 612 8	# 05	1,175	п	₹		r	3	п	•	•	n	Π	n	~
09/02/94	812 05	7.99	1.1	n	CV	ď	n	•	n	n		ń	n	n	N
12/08/98	812,76	7,4	0.796	n		•	n	•	n	•	Α	n	n	n	~
03/15/99	814 08	6 68	0 697	•	œ	п	п	٨	n	7	п	n	n	n	TT.
06/16/99	B12.92	4 84	0 584	n	CT .	n	•	9	n	n	•	n	п	n	~
09/02/99	811 68	7.31	0 683	•	æ	П	п	•	n	n		n	٩	n	
12/16/99	E12.96	7.4	0.696	n	1.5	đ	n	r,		0		п	п	n	m .
03/01/00	813 49	7.35	0 693	•	2.4	п	•	3.3	n	n		n	n	n	•
08/06/00	61344	7,77	0948	n	'n		•	П	п			п	ń	n	re ·
09/07/00	812.94	7.25	0 623	ñ				e.	n	n		•	•	n	
12/13/00	824.7	7 06	0.967	1.1	5 3	ñ	n	2.6			•	n		^	

GZA 1				1,1-01	Os 1.2	Tetra	1,1,1 to-	141					_		Total
	TOC ELEV: 028.3)	Sc Cand	Chipre	Ch-chiere	Chlore	Chiore-	Criora	Chicke	V)my1			Ethyl		Petroloum
Date	₩L.	coll, units	antitos	elitere	#2hene	#Charles	42,444	ethene	ethere	Chientes	Benzene	Taluens	Genzava	Kylynes	Hydrocarbons .
					**********		****	**********	**********	*****			*********	0+0000×2200	*****
10/14/93	OT.	•	N	n	Cr.	31	041.1	1.4			E .	ď	•		Ar .
07/20/94	813 90	œ	Of	ń	æ	21	0.6	\$	•	n	•		n	n	
00/22/95	814 03	70	1 02	n	CF CF	21 .	•	2	п	•	#	o o	•	•	M.
11/05/95	614 83	4.5	0.86	ń	~	20	ı	2	•	n	•	п	9	n	Nr .
02/15/96	615.33	4.5	0.79	n	n/	7	n	q	•	n	r.		n	•	~
05/28/96	816 49	5.5	0.65	n	N	43	п	2		n		a	4	n	•
09/14/96	1134	4.5	0 90	n	OF.	92	2	3		٨	₹.	r,	ń	•	~
11/21/94	611 42	50	1.00	n	Nr.	41	ı	2	•	n			n	n	nr .
12/17/97	811.59	70	1 083			36	n	•	п	n	ъ		ń	Α .	PF .
2/06/90	413 54	7.2	1.105	Ď	re .	49	5	,	n	n			п	п	TT
12/14/99	813 49	72	1.105			23	61	1.1		n	B B	6			78*
12/13/00	8 14 21	7.1	1.001	6	•	40	1.9	2.5	n	n	n	a	n	n	**

All data in cob unless noted

n • Not detected at method detection firms or = hos reported or not tested

P = Analysis detected in laboratory method blank
 D = Dudicate samide insulhus
 E = Estimated concentration - success instrument calibration rants
 J = Estimated concentration below quantitation limit

....._t-clark corporation Brown Bridge Facility Troy, Ohio GROUNDWATER BAMPLING ANALYSIS RESULTS

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PW 1 Date	TOC ELEV. 622.29 W.L.	diLunits	So Cord methes	2,3-Di Chiore ethare	Cit 1.2 Di-chlors ethene	Tetra Chiore strene	1,1,1 Tri- Chlore- ethane	In Chlore ethere	Chiore	Vimyt Chlencia	Bertzern	Taluene	Ethyl Benzane	Kylones	Fotal Petroleum Hedrocarbons
***************************************					*********			******	-		******	*********	*********	********	
08/23/95	~	70	0.76	•	TT	п	n		п	n	•		٨	n	180
11/15/95	809 53	6.5	0.77	0	~	•	n	n		n	n	9	Ð	n	
02/16/96	nv .	60	0 71	ń	T#	a	n		q	•	6	•	n	n	п
05/30/96		6.5	0 69	5	~	Ď.	ń	p.	•	n	n	160	п	n	110
09/17/96	₩	6.5	0 48	n	Ca.	n	2	11	п	6			•	n	
11/22/94	810.03	60	0.70	#	~		9		•		n	п	-		
02/06/97	Mr.	Ar .	re-	2	(14	n	fi.	4	п				6	•	
06/03/97	817,74	7	0 567	п	OF.	n	1	12	η	-	b			a	N
09/25/97	\$10.89	6 03	1 093	ď	CV.	6	n	•	n	a	ħ	•			Nr.
12/17/97	809.76	7.63	0.936	q	•	5		•	n	•	n	•	п	п	TV
03/04/96	E11 06	•	F	а	~	ň.	n	9	n		n	•		ď	e e
06/03/98	B11.37	7.95	1.095	•	•	A .	п	3	n		n	п		п	~
09/02/98	# 11 69	8 1	1.12	n	٨	п	п	130	A		n	n	п	п	~
12/06/98	413 07	7 43	0715	•	er e	П	П	n		e	n	n	n	•	~
03/15/99	610 62	74	0 661	•	TT .	п	n		6	•	•	n	p	n	~
06/16/99	610 48	6 93	0.723	n	rier .	п	n	•	n	•		n	n		~
09/02/99	\$12.7 9	7,79	0 698	n	76	n	The state of the s	•	•	ń	7	n	n	n	~
12/16/99	£12 96	743	0715	n		e e		n	•	п	m m	n	n	n	iv.
03/01/00	814.07	7 44	0 689	a	-	n		n	•	п	•	D.	n	n	rier .
06/06/00	813 49	769	0 974	•	a	•	ď			п	п	a a		n	nr nr
09/07/00	B13 67	7.39	0.703		п	n	0	h		n	4	П		•	
12/13/00	814 22	7.88	0.804	e e	•	n	4	۸			e e		٠	n	nv .

PW 2	TOC ELEV: 622 21		\$a Cond	L.1-Di Chipre	Cia 1,2 Di-chiloro	Tetra Chioro	t,1,1 Tn- Chiero	Tri Chiore	Chlors	Views			Curvi		Total Petroleum
Date	WL.	pH.units	PATTER	ethene	etzvenve		withang	ethene	4(Craine	Chicride	Benzene	Tokuene	Bunzane	Kytomes	Hydroca/bons
						*******	*********	*********	ed mobile a mi m			وبدسست		*******	PROTESTA STATE OF THE STATE OF
98/31/95	G.	65	0.79	n	₩.		ñ	:	n		4		n		120
8/93/95	C C	65	0.75	Α	OF .	П	4	π	n	•	n	•	п	n	330
11/15/95	BCS 71	6.5	0.74	.5	~	•		n	n		•		n	ń	п
02/16/96	~	60	0.71		n/	п			D.	6	•	· "	n	0	
05/30/96	TV	6.5	0.69	ē.	œ	•	n	ħ		n	n	P	n	n	п
09/18/96	r r	70	0.68	ň.	nr nr	' n		n		n	•	n	n	7	n
11/21/94		65	0.71	а	~	•	n	n		п	n		n	•	п
02/04/97	~	ne .	~	ń		n	П	P	r.	R	•	330	n	R.	#
06/03/97		689	0 631	π	nr .	ā	n	и	ń	п	•	760	•	0	ter .
09/25/97	Rr .	~ ;	~	•	N	n	-	n	п	0		n	•	•	₩
12/17/97	**	7.55	0 684	n	D	6		n	п		n	r,		•	f#
03/04/96	P#	~	~	n	· ·	6		•	n	n				•	? **
06/03/99	~	7.86	1.103	n	~	n		ħ	•	n	n	•		e	~
09/02/94	PF	8.1	1 026	n	(TE	n	п	п	n	n	n	ń	а		Cr Cr
12/06/98	riv	761	0.704	n	CV CV		n	n	•	n	a	п	n	•	riv .
03/15/99	OF .	7.31	0.68	n	t a	п	п	6	n	6	6	п	п	п	•
06/16/99	re .	7.31	0 69		N	n	n	ń	ń	n	•	п	•		N
09/02/99	Cr.	7.4	0.715	•	riv .	n	n	π	a	•		ń	п	п	RY
12/16/99	fer .	7.6L	0 714	π	n	n	n	•	n			n	•	•	~
03/01/00	TV	7.29	0 696	0	•	D		η		а	n	n	п	n	Pr
06/06/02	•	7.2	1 044	п	n	6		n	•	•	а	n		n	~
09/07/00	ny .	703	0 64	n	n	n	n	n	6	e	n	n	n	n	nv .
12/13/00	for	7.63	0.753	n	n		п	n	•	•	n		ь	n	~
12/13/00		7.93	0.753	n			п	•	•	ń	п	•	P	•	~

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Service States and American Control of

RIMBERLY-CLARK CORPORATION BROWN BRIDGE FACILITY TROY, OHIO GROUNDWATER BAMPLING ANALYSIS RESULTS

PW 3		_	Sp Cond	L.t Or Chlore	Çis 1,2 Di chique	Tetra Crisco	1.1.1 Tri- Chiere-	Tri Chloro	Cintoro	Variet			Ethia		Total Petrologra
	TOC (LEV: 02).65					ethene	STREET	gthene	ethane	Chlonde	Berzene	Toluene	Benzene	X-Fernera	Hydrocarbons
Deta	WL.	pHurets	THE PARTY OF	4:2/TRUM	militarium	PU WAS	1104	41/4/4	B.Cordonal		The City	10004		×4-4-4-4	
**********		***			******		42			4					~
08/23/95	nrnr	6.5	0.77	24		•	*2	:	<u> </u>				2	"	
11/15/95	806.75	6.5	0.71	27	; =	•	33			2	•			***	
02/14/96	~	60	0 91	10	**	6	27	- 7	n	•		•			
05/30/96		60	0.43	n	78	n	n	7	ъ.	•		•	•	•	
09/18/96	•	6.5	0.78	23	•		39	7	•	3				•	AT .
11/21/96	TV	6.5	Q.7 1	5	**		•	2	P	Z	•	0	٠		~
02/06/97	~	PF .	CVF	2	**	a	4	1	n	•	•	6	G.	n	~
06/04/97	n/	6 92	1 07	1	54	6	5	4	6	•	п		6		~
09/25/97	~	A	e.	7	CT CT		14	l l	ò	6		•		6	er e
12/17/97	nr.	7.19	0.833	n	14	q	n		n	P.	•		6		72
03/04/98	ir ir	a	Of .	n	(*	a	2	п		ň.		6		٠	Mr.
06/03/94	~	7.46	1.199	4	~	q	4	2				•	•		74
09/02/94	i.	7 85	1.1		-	6	3	n	n	1	•			A	ar
12/08/98	~	7.36	0.791	ũ	TV	ď	ī	1		,		•	6		nr nr
03/15/99	· ·	7.25	0,715	11		6	10	9		6		Ð		A .	re re
06/16/99		7.25	0.715	14	~			•		7		•	5		78
09/02/99		7,25	0.745	ii		ä	19	•		13			n	n	æ
12/16/99		7,36	0.791		**		492	ŭ		ä		ñ	6		
03/01/00	T N	6 84	0 894	ï	ű		iii	ži	ñ	2.065		n		6	~
		7.03	1.006			<u>"</u>	7.4	374	ii ii	6.7		Ä			N
06/04/00	~			**	23		- 57	12	<u>"</u>	9.2					~
09/07/00	14	7,12	0.69	7.7	73	-	41	17	"	8 085				"	~
12/13/00	~	7.53	0 82	54										***************************************	·

PH 4	700 O EL 121 CA		So Cond	1,1-Or Creare	Os 1.2 Di-chlore	Tetra Chiore	1,1,1 fri- Criero	Tri Chioro	Chica	View			Ethyl		Total Petreleum
	TOC ELEV: \$21.54			ethere	athene	42yeare	ethara	ethere	ethune	Chlonde	Benzene	Taluene	Derzene	Xylunes	Hydrocarbons
Dete	*L	oH.units	**********	43484	404-4	10	*****	127.1				-			
08/23/95		6.5	0.76	,	~		•		•	Δ			•	0	PF
11/15/95	807.06	8.5	0.78	- 1	Ξ		ä	ï		 D	Ä		n n	n	•
	407 UK	60	0.79	:	-		•	7	~	ä			Ä		DF
02/16/96 05/30/96		6.5	0.75	7	2		7	:		i			ï	n	
	, r	6.5	074	:		Ξ.		ÿ	ű.	i i					De .
09/18/96		6.5	0.78	,	- 2	- :	;		ž	- 7				n	
11/21/96	· ·		0.70	:				ä			- ï				N
07/04/97		704	O.57B				- :	•		"	-			n	
06/03/97	•							:		ï	ű.				
09/25/97	ne ne		**	•			<u> </u>		- :	:		:	ä	~	~
12/17/97	~	7.15	0 843		10				2	:	~~~	:			~
03/04/90	ne ne	, Or		e.	or						7			~ ~	Ξ
06/03/98	•	7 89	1.006	•	~	ņ	n	1	п		•	- "		"	
09/02/98	r)r	1.15	£ 05		•	•	•	ŋ		,				<u>"</u>	<u></u>
12/08/98	~	2.39	0 687		re .	n		n	n	n		R			
03/15/99	nr.	7.39	0 687	a	OF.	•	វេហ	ņ	•	<u></u>		-	7		
OE/18/99	No.	2.39	0.687	2)	~		13	,	n	N	n	п	ņ		
09/02/99	- OF	7.25	0.705	1E	œ	•	•	ď	•	IE	ь.	п п	n	ņ	
12/16/99	~	7.39	0 687	n	12	n		15	n	1.1	•	n	n	•	~
03/01/00	nr.	7.3	0.718	- 5	7.5	•		L.3	•	n	5		n	ņ	nv .
06/06/00	~	7.2	0 96	n.	11	n	n	1.5	n	п п	n	R	n	•	~
09/07/00	OF .	7.05	0 63	п	15	•	Α .	П	-	Λ.		a	•	n	D¢.
12/13/00	₩	7.56	0.76	1.4	1#	n	п	2.6	п	3,788		n	п	^	~

All date in cob unless noted

n = Not detected at method detection fend.

ne a Not reported or not tested

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KIMSERLY-CLARK CORPORATION BROWN BRIDGE FACILITY TROY, ONIO GROUNDWATER SAMPLING ANALYSIS RESULTS

EE18 2 Date	TOC ELEV: 825.75	pkunts	Bo Cerd. mithos	1.1-O- Czisore ethere	Cis 1,2 Di-chipre uthere	Tetra Chiora ethene	1,1,1 Tri- Chiore- strane	Tri Chiore ethens	Chlora ethane	Vimi Criende	Bergane 	Toluene game supposé	EUW Benzene Connectation	E rienu s madado como	Total Petroleum Hydrocarbons
*******	#13 50		~	0.1	35	9.7	11	17	п			149,000		•	~
07/20/94		7 Ď	0.72	•			- 7				6	1,300			290
08/51/49	415 65	6.9	0.75	-	Ξ		- "				n	39,000		6	1,900
11/15/95	014.79		0.74	7	=	7	ä	ä				1.500	2	,	110
02/15/94	614 65	45		2	Ξ	ä						86.000		٨	pr
02/16/96			0 87			7	~	Ä		, n		110,000	п	n	9,700
05/29/96	\$15.70	55 45	0 69		12	~~			Ë			12,000	e	n	1.000
09/18/96			0 96		-	**				'n		65		n	220
11/22/96	810 95	60		<u> </u>	12	"			"			2,700	2	15	per .
02/06/97	•	.~	**	?	-	7		ä	, i		ē	7,400		n	~
06/04/97	nr.	47	0.97	•	(**		- 1		ä	ë.		14,000	16	36	CF.
09/25/97	~	er.		•					ï		ä		Ď	n	~
12/17/97	n/	72	0.788	2			"	<u>.</u>		ä	ä	2,400	2	4	134
03/04/16	ir	N		7				7			ï	9,900	13	21	~
06/03/96	· · ·	78	1 098		•	7	<u>"</u>			- "		110	Ä		CF.
09/02/98	•	80	1.085	P	~	<u>n</u>	_				~	9,600	*		~
12/02/94	~	7.1	0 114		Gr.	п п		2		2	÷	6.000	ä	19	Of .
03/15/99	•	7.2	0.768	2£J	~		34.7	:			:	810	i	6	~
06/16/99	~	72	0.768	•	~	_	•			2		4		ň	Cr.
09/02/99	•	7,1	0.70	n		п.				"		1,200	ũ	2.2	~
12/16/99	œ	7.1	0.714	•	2.8	n	2			7	:	520	2.3	6.9	Nr.
03/01/00	~	7.1	0 64	P	2.L	ū	•	n		7	-	-	1.1	0	
08/08/00	re re	4.7	1.157	•	1.1	•	ņ	ņ		2	-		***	Ä	
09/07/00	æ	70	9.7	0	.0	a	•	<u> </u>			7	- "	- "	, ii	~
12/13/00	77	7.1	0.979	•	1.9	n	n	n	r.	n					

System Influent			So Cend.	1,1-Oi Creare	Ct 1,2 Ca-chiore	Tetra Chiore	1,1,1 7n- Crises	Tri Chilore	Chloro	York			EUM		
Date	#L	pH.units		ethane	ethene	ethene	ethane	#Chefie	ethere	Chionde	Denzeron	Taluene	Sergent	Evienes	Chiprotorm
		*****	*******	_		**********	40 7000 LPL 97	******		68444444 4		********	aasst.		
08/22/95	NA.	Cr.	fer .	per .	~	n	n	6	n	ņ	•	ņ	n	ņ	
08/24/95	NA	•	mr .	Ļ1	Of	n	10	7	•	1		n			7
09/20/93	NA.	DV	~	•	rar .	n	17	\$	п	7		Ü			
10/18/95	· NA	/ **	pr	~	•	œ	•	per .	W	12	P		7		
11/15/95	NA.	~	~		~	ń	17	,		•	n	ņ	Б.	7	"
12/20/95	NA .	~	w	4	•	n	•	1	•	ņ	F.		ņ		
02/16/94	NA.	60	0.76	4	~	n	•	n	0	2	n	61			
09/30/96	N/A	6.5	0.73	3	•	4	•	2		,	•	13			.2
09/18/94	NA.	6.5	0.73	3	CH .	•	5			e e	n	10	•		
11/21/96	MA	6.5	0.74	1	re .	π	2		6	a	ņ			2	7
02/04/97	NA.		re .		N	n	В		6	-	n	800	n		
06/03/97	NA.	6 64	0.702	•	ń	ū	n		п	n	•	230	'n	7	
09/05/97	NA.	4 91	CV.	п	n	•	ŋ		ń	4	•	150	5		7
12/17/97	MA	7 03	2.7	A	n	o o	6		n		П	₩1	n .	7	
03/04/98	NA.	0.73	0.86		n	•	n	•	•	•	•	31	2		
06/04/98	NA.	9.67	C 85	B	•	r,	n		n	n	-	Δ.		n	
09/02/98	NA	# 6	0.9		De .		п		n	•	•		п		7
12/00/90	NA	7.41	0.716	п	6	•	n		П	n		410		<u>n</u>	
03/15/99	NA	7,76	0.728		TH'	В	п		•	n	a	300	•		2
06/16/99	NA	7.21	0.676	п	~	n	A	•	п	^	6	n		n A	2
09/02/99	NA.	7.07	0.715	a	(₹	n	п	-	n	n	•		ri .		"
12/09/99	NA.	7.34	0 759	п	•	n	n	٨	П	9	n		_	7	
03/01/00	NA.	7.13	0.767	•	п	n	п	В	•	п	n	60	•		2
06/06/00	NA	6.78	1.163		18	n		•	n	•	n	Ü	ū	n	
09/07/00	NA.	7 07	0.585	٨	n	n		Б	•	п	n	•	-		"
12/07/00	NA	7.04	0.721	•	n	n	n	n		•	n	Α			

All data in pob unless noted

n = Not detected at method detection limit ne = Not reported or not leated

.Y-CLARK CORPORATION BROWN BRIDGE FACILITY TROY, OHIO GROUNDWATER SAMPLING ANALYSIS RESULTS

Separator Library	ent		So Cond	9,3 DI Ordone	Qs 1.2	Terra	L,1,1 Tm-	†n	~						
Cate	w.L				Di ethoro	Chicre	Chipro-	Chions	Childre	Vind	_	. .	Ethi		
VAR.	₩,∟	phunts	mmtes	ACCIONA	ethene	athene	ethere	ethere	BURUS	Chioride	Benzene	Solvene	Bentere	Zylenes	Chigagorya
			*******	*********	****			*******	-	****		*********		******	
08/24/95	NA	PF.	N	•			15	2	n .	1	Б.	a	e.		
09/20/95	NA		OF.	•	~	•	18*	2		2					
11/15/95	NA.	~	•	7	OF	9	14	2		ď		ń	ë	ė	ä
02/16/96	NA	6.5	0.77	В	re r	•		ñ	ò	6		1900	ä	Ġ.	
03/22/94	NA.	re r	fer .	5	DF	n	10	2		9	ë	23		ä	ä
05/30/96	NA	4.5	0.73	i		ň	7	-		Ä	ä	11	ñ		
09/18/94	NA.	70	0.79	ì	TV		,	ī	ä		~	170			Ä
11/21/96	NA	6.5	0.73		~	n	i	i.			"	***			7
02/06/97	NA.		· ·		~			¥		=		ANO.	7		
				-	7-	**		**	.,	,,	9			•	
06/03/97	NA.	8.3	0.7	•	*	n	η	•	•	n	п	680	n	2	

* 1.1.2 Inchigroethene was detected, 1.1.1 Inchigroethene was not detected.

System Effluent			Se Cond	1,1-OI Critore	Ca 1,2 Orchine	Tetra Crisera	1,1,1 Tri- Crears-	Tri Chioro	Chiore	Vanyl			Estre		
Date	WL	phiumits	mater	elhere	ethene	ethene	ethane	ethene	ethane	Cheoride	Bertene	Toluete	Bettere	Xylenes	Chieroform
********				******		****	*********	-	*************			*****	*****	*********	
00/22/95	NA.	ne.	in.	ą.	~	n	•	n	•	q	n	•		n	0
08/24/95	NA.	~	er e	4	n/	n	a	n	•	•	ń	ri e	Δ.		
09/20/95	NA.	TOTAL CONTRACTOR OF THE PARTY O	n y	n	~	n	•	n			n			•	•
10/18/95	NA.	~	~	· ·	₩.		CF.	M.	~	~	n	п	•	-	er e
11/15/95	NA.	r¥*			~	ħ	•	ń	п	п	n	п	6	6	ň
12/20/95	NA.	~	•		•	7	n	Б.	n		n	n	r.	п	-
02/16/96	NA	6.5	0.73	•	N N	n	•	•	п	п	-	12		n	ň
03/22/96	RA.	~	100	п	***	П	n	a	п	•		•		п	Λ
05/30/96	NA	7.0	0 64	Λ	~	6	^	n		п	5	•		n	•
09/18/96	NA.	70	0.76	7	Car Car	-	n	e e	•	•	•	766	ń	п	3
10/14/96	NA	Cr.	œ	n	~	n	•	•		п	7	•	n	n	•
11/21/96	NA.	7.0	0.71	n	C.	П	n		n	n	Α	•	ń		P
02/06/97	NA	CA.	nr nr	5	~	•	•		п	n	П.	20	Α		h
05/12/97	NA.			**	nv	rer .	TV .	CV .	nr nr	Nr.	•	•	ń	n	PF
06/03/97	MA	7 63	0 668			•	a a	ń	п	n	e e	4	•	n	n
09/05/67	NA	R 42	rher .	o o		п	9	n	n	5		n	п	n	
12/17/97	MA	8.3t	0.747	a	n	n	•	ń	•	n		n	n	5	n
03/04/98	NA.	9.72	0 857	ď	n	n	•	n	n		n	•	ń		•
06/04/98	MA	0.7	0.855		a	n	•	ń	•	n	4	n	P	•	Α.
09/02/98	N/A	E 45	0.95	п	PE	Ħ	n	n	•	-	•	n	n	•	9
12/08/96	NA.	6 45	0 93	•	n	•	ń	n	•		П	n	D D	a	ń
03/15/99	NA	7.91	0.785		74	6	٠,	5		e	•	n	•	0	q
06/16/99	NA	7.87	0 635	•	~	n	ń	n	•	П	П		er e	П	n
09/02/99	NA	7,74	0.689	п	CF.	а	n	В	п	0	•	•	•	R	п
12/09/99	NA	7.89	041	n	•	•	n		•	п	D	6		п	•
03/01/00	NA	# O5	Q 77	n	п	q	n		•		•	n	•	п	n
06/06/00	NA	7.69	1.1	•	n	•	ħ	•	r		n	•	п		•
09/07/00	KA	7.7	0 64			•	Б		•					ń	
12/07/00	- KA	8 45	0.703		n		•	п	п	п	n		П	Λ	

All date in cob wriess noted

n • Not detected at method detection limit or • Not recorded or ret tested

TABLE 2 SUMMARY COMPARISON TO CLEAN-UP GOALS, YEAR 1997 EAST END GROUNDWATER REMEDIATION FORMER BROWN-BRIDGE FACILITY TROY, OHIO

February 2001

Constituent	Clean-Up Goal (µg/L)	Maximum 1997 Concentration (μg/L) ¹	Well & Date of Max. Detection
Benzene	5	BDL ²	NA
Toluene	1,000	BDL	NA
Ethylbenzene	700	BDL	NA
Xylenes	10,000	BDL	NA
Tetrachloroethene	5	24	KMW-1 (2/7/97) ³
Trichloroethene	5	2	EEIB-7 (11/22/97)
Cis-1,2-dichloroethene	70	BDL⁴	NA
Trans -1,2-trichloroethene	100	BDL⁴	NA
1,1,1-trichloroethane	200	170 ⁵	EEIB-8 (11/22/97)
1,1-dichloroethane	200	BDL	NA
Chloroethane	200	BDL	NA
Vinyl chloride	2	BDL	NA

¹Detections exceeding clean-up criteria are shown in BOLD.

²Below the laboratory's detection limits.

³KMW-1 is an upgradient monitoring well and results for this location represent background conditions.

⁴Not all samples collected in 1997 were analyzed for these constituents.

⁵This was the only detection of 1,1,1-trichlorethane in groundwater samples collected in 1997.

TABLE 3 SUMMARY COMPARISON TO CLEAN-UP GOALS, YEAR 2000 WEST END GROUNDWATER REMEDIATION FORMER BROWN-BRIDGE FACILITY TROY, OHIO

February 2001

Constituent	Clean-Up Goal (µg/L)	Maximum 2000 Concentration (µg/L) ¹	Well & Date of Max. Detection
Benzene	5	BDL ²	NA
Toluene	1,000	520 ³	EEIB-2 (3/1/00)
Ethylbenzene	700	2.3	EEIB-2 (3/1/00)
Xylenes	10,000	6.9	EEIB-2 (3/1/00)
Tetrachloroethene	5	74	EEIB-4 (12/13/00) ⁴
Trichloroethene	5	16	KMW-9 (9/7/00)
Cis-1,2-dichloroethene	70	53	PW-3 (6/6/00)
Trans -1,2-trichloroethene	100	1.2	PW-3 (12/13/00)
1,1,1-trichloroethane	200	11 .	PW-3 (9/7/00)
1,1-dichloroethane	200	14	PW-3 (12/13/00)
Chloroethane	200	BDL	NA
Vinyl chloride	2	9.2	PW-3 (9/7/00)

¹Detections exceeding clean-up criteria are shown in **BOLD**.

²Below the laboratory's detection limits.

³This was the only detection of toluene in all samples from West End wells in 2000.

⁴EEIB-4 is an upgradient well and results from this location represent background conditions.

TABLE 4 PCE, TCE AND VINYL CHLORIDE IN GROUNDWATER SAMPLES WEST END GROUNDWATER REMEDIATION FORMER BROWN-BRIDGE FACILITY TROY, OHIO

February 2001

Well		Tetrachio	roethene ^t			Trichlo	roethene			Vinyl (Chloride ¹	
	Range	â	δ	Confidence	Range	a	δ	Confidence	Range	û	8	Confidence
	(μg/L)	(ln)	(ln)	Interval	(µg/L)	(ln)	(ln)	Interval	(μg/L)	(ln)	(ln)	Interval
Backgroun	d Wells:											
EEIB-4	BDL ² -100	NE(B)	NE(B)	NE(B)	BDL-5	NE(B)	NE(B)	NE(B)	All BDL	NA	NA	NA
GZA-1	7-92	NE(B)	NE(B)	NE(B)	BDL-5	NE(B)	NE(B)	NE(B)	All BDL	NA	NA	NA
KMW-5	BDL-17	NE(B)	NE(B)	NE(B)	BDL-6	NE(B)	NE(B)	NE(B)	All BDL	NA	NA	NA
KMW-7 ²	BDL-160	NE(B)	NE(B)	NE(B)	BDL-22	NE(B)	NE(B)	NE(B)	All BDL	NA	NA	NA
Downgradi	ient Wells:							<u> </u>		_	-	
KMW-6	BDL-150	NE(42)	NE(42)	NE (42)	BDL-30	NE (27)	NE (27)	NE (27)	All BDL	NA	NA	NA
KMW-8	All BDL	NA	NA	NA	BDL-18	NE (51)	NE (51)	NE (51)	BDL-8	NE (39)	NE (39)	NE (39)
KMW-9	All BDL	NA	NA	NA	BDL-26	0.48	1.00	-11.3, 12.3	BDL-18	NE (39)	NE (39)	NE (39)
EEIB-2	BDL-9.7	NE (77)	NE (77)	NE (77)	BDL-17	NE (77)	NE (77)	NE (77)	All BDL	NA	NA	NA
EEIB-12	All BDL	NA	NA	NA	BDL-11	NE (39)	NE (39)	NE (39)	All BDL	NA	NA	NA
PW-1	All BDL	NA	NA	NA	BDL-130	NE (27)	NE (27)	NE (27)	All BDL	NA	NA	NA
PW-2	All BDL	NA	NA	NA	BDL-11	NE (42)	NE (42)	NE (42)	All BDL	NA	NA	NA
PW-3	All BDL	NA	NA	NA	BDL-12	0.96	0.98	-10.6, 12.5	BDL-13	0.55	0.86	-9.2, 10.3
PW-4	All BDL	NA	NA	NA	BDL-7	NE (51)	NE (51)	NE (51)	BDL-6	NE (18) ³	NE (18) ³	NE (18) ³

BDL - concentration below laboratory detection limits.

NE(B) - not evaluated; background well.

NE(#) - not evaluated; number in parentheses is the number of months since the clean-up goal was last exceeded (up to most recent data, December 2000).

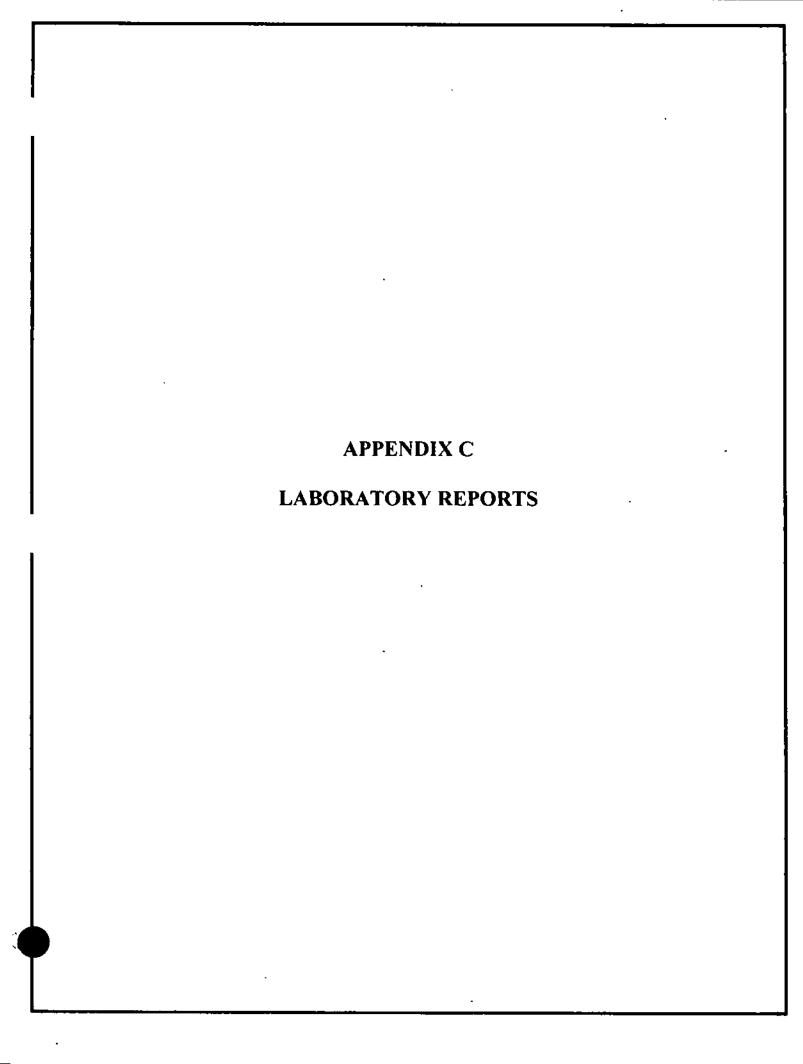
NA – not applicable.

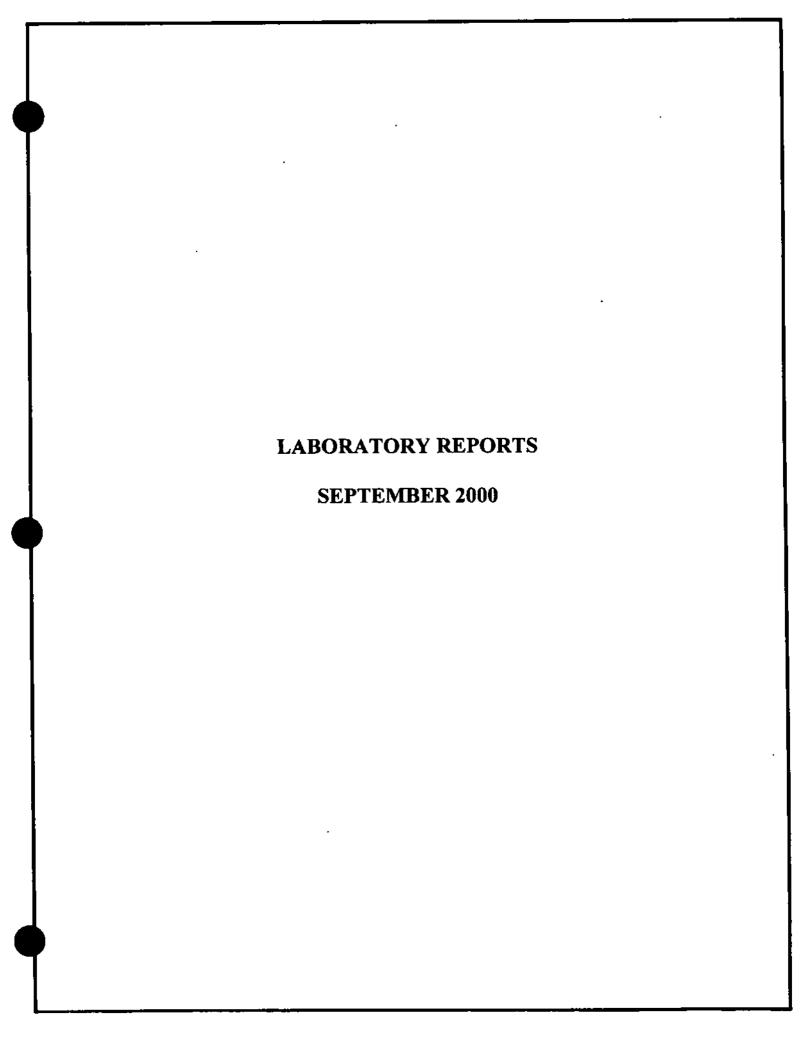
Note: In of TCE clean-up goal (5 µg/L) is 1.6; In of vinyl chloride clean-up goal is 0.7.

Concentrations exceeding clean-up goals are shown in BOLD.

²KMW-7 is north of the former Bulk Storage area; however, potentiometric maps indicate that this well is upgradient of the areas of past releases.

³Vinyl chloride was detected at 3.7 μg/L in a sample from PW-4 collected in 12/00; however, the laboratory flagged this detection due to instrument calibration.





Sampling and Measurements of six Groundwater Monitoring Wells Four Pumping Wells and Water Sampling and Analysis of Effluent/Influent System at Spinnaker Coatings, Troy, Ohio

For

HYDROVISION, INC. 7094 Peachtree Industrial Blvd. Suite 300, Norcross, Georgia 30371

Report No. 118292-0900-T295

September 28, 2000



BOWSER-MORNER

4518 Taylorsville Road • P.O. Box 51 • Dayton, Ohio 45401 • 937/236-8805

ENVIRONMENTAL REPORT

REPORT TO: HYDROVISION, INC.

REPORT DATE: September 28, 2000

7094 Peachtree Industrial Blvd.

REPORT NO.:

118292-0900-T295

Suite 300 Norcross, Georgia 30371

Attention: Mr. Steve McFadden

REPORT ON: S

Sampling and Measurements of six Groundwater Monitoring Wells, Four

Pumping Wells and Water Sampling and Analysis of Effluent/Influent

System at Spinnaker Coatings, Troy, Ohio

On September 7, 2000, water samples were collected from six groundwater monitoring wells, four pumping wells, and the influent and effluent systems on the Brown-Bridge site in Troy, Ohio. These samples were tested in the field for pH, temperature, and specific conductivity. Water levels in the six monitoring wells were measured. The four pumping wells, PW-2, PW-3, PW-4, and EEIB-2, were sampled from valves in the treatment building.

The following procedures were followed during the monitoring well sampling. First, the water level in each well was measured using a water tape that was decontaminated before being placed in each well. Based on the well depth, the volume of the wells were calculated using the formula on the <u>Groundwater Monitoring Field Data Sheets</u> in **Appendix A**. After at least three well volumes were bailed manually from each well, a water sample was manually collected and preserved according to the U.S. EPA SW-846 guidance for laboratory analysis, and shipped to the Severn Trent Laboratories, Inc. in Pensacola, Florida.

Water samples from each of the groundwater monitoring wells, pumping wells, and the influent and effluent systems were collected and tested in the field for temperature, pH, and conductivity by EPA Methods 150.1 and 120.0. The instruments were calibrated before the sampling began. The results of the field tests for the monitoring wells, pumping wells and production wells are summarized below in Table 1. Field Parameters for the Effluent and Influent samples are summarized in Table 2. Copies of the Field Notes are included in Appendix A.

TABLE 1
RESULTS OF FIELD PARAMETERS
MONITORING WELLS

Monitoring Well No.	Water Level (ft)	Temperature (°C)	pH	Conductivity
PW-1	8.56	22.4	7.39	703
KMW-6	12.28	22.5	6.99	659
KMW-7	12.67	20.6	7.21	671
KMW-8	12.57	21.3	6.29	581
· KMW-9	12.40	22.6	7.48	587
EEIB-12	13.54	21.8	7.25	623
PW-2**	N/A	17.7	7.03	640
PW-3**	N/A	20.7	7.12	650
PW-4**	N/A	17.6	7.05	630
EEIB-2**	N/A	19.7	7.03	700

^{**}Sampled from valves in treatment building. N/A = Not applicable

Influent and effluent samples at the Spinnaker Coatings facility in Troy, Ohio were collected manually and preserved according to the U.S. EPA SW-846 guidance. The effluent sample was tested in the Bowser-Morner laboratory for volatile organic compounds (VOC's) by EPA Method 8260, total suspended solids (TSS) by EPA Method 160.2, total organic carbon (TOC) by EPA Method 415.1, and polynuclear aromatic hydrocarbons (PAH) by EPA Method 8100. The influent sample was tested in the Bowser-Morner laboratory for VOC's and PAH's only. The Chain-of-Custody Forms and the complete Laboratory Reports are included in Appendix B. The field parameters from the Influent and effluent samples are summarized in Table 2. The analytical results are summarized in Table 3.



TABLE 2 **RESULTS OF FIELD PARAMETERS** SYSTEM EFFLUENT AND INFLUENT

Sample Location	Monitoring Point Type	Temperature (°C)	pH	Conductivity
System Influent	Influent	21.2	7.07	585
System Effluent	Effluent	17.94	7.70	640

TABLE 3 ANALYTICAL RESULTS SYSTEM EFFLUENT AND INFLUENT

Sample Location	Analyte Detected*	Result	EPA Method No.	Date Analyzed
System-Effluent	Total Organic Carbon (TOC)	4.7 mg/L	415.1	9-12-00
System-Effluent	Total Suspended Solids (TSS)	4.0 mg/L	160.2	9-11-00
System-Effluent	Volatile Organic Compounds (VOC's)	Al) < MRL**	8260	9-18-00
System-Effluent	Polynuclear Aromatic Hydrocarbons (PAH)	All < MRL	8100	9-15-00
System Influent	Volatile Organic Compounds (VOC's)	All < MRL	8260	9-17-00
System Influent	РАН	All < MRL	8100	9-15-00

^{*}Only the analytes detected are summarized here.

**MRL = Method Report Limit
mg/L = parts per million
ug/L = parts per billion



Thank you for selecting Bowser-Morner, Inc. for this project. As always, your business is appreciated and we look forward to working with you again soon. In the meantime, if you have any questions or if we can help you in any way, please let us know.

Sincerely,

BOWSER-MORNER ASSOCIATES, INC.

Joseph D. Saunders

Senior Environmental Scientist



JDS/kmw 3-Client



APPENDIX A FIELD DATA SHEETS AND FIELD NOTES



Client: HYDROVISION, INC. Site: Spinnak	er Coatings	
Date: 9-7-00		
Monitoring Point Identification: PW-2	Monitoring Point Type: Spigot	-
Location: Treatment System Building Valve #2		
Static Water Level (ft): N/A	Well Depth (ft): N/A	_
One Well Volume (gal): N/A	Actual Purge Volume (gal): N/A	-
(depth) - (swl) = head head x conversion factor conversion factor: 2" well diameter = 0.163 gal/ft	= 1 volume 1 vol. x 3 = purge volume 4" well diameter = 0.653 gal/ft	
27.4(0.128129). (C.1212000). (C.121200). (C.121200). (C.1212000). (C.1212000). (C.1212000). (C.1212000). (C.12	(3) = 13 × (3) = 14 ×	
Purging Device: N/A	Sampling Device: N/A	_
Immiscible Layers ?: N/A	Thickness:	_
Filtered?: N/A	Filter Type:	_
Weather Conditions:		_
Sample Appearance and Odor: Clear, no odor		_
FIELD COMMENTS		
		
FIELD ANALYSIS		
Temperature (°C): <u>17.67</u>		
Specific Conductance (µmhos/cm³): 640		
pH (SU): 7.03		
umpler Name: J. Denney / D. Coleman	Affiliation: BMI	_

Client: HYDROVISION, INC. Site: Spinnaker	Coatings
Date: 9-7-00	
Monitoring Point Identification: PW-3	Monitoring Point Type: Spigot
Location: Treatment System Building Valve #3	
Static Water Level (ft): N/A	Well Depth (ft): N/A
One Well Volume (gal): N/A	Actual Purge Volume (gal): N/A
(depth) - (swl) = head head x conversion factor = 1 conversion factor: 2" well diameter = 0.163 gal/ft	1 volume 1 vol. x 3 = purge volume 4" well diameter = 0.653 gal/ft
(0.163)	
Purging Device: N/A	Sampling Device: N/A
Immiscible Layers ?: N/A	Thickness:
Filtered?: N/A	Filter Type:
Weather Conditions:	<u>. </u>
Sample Appearance and Odor: Clear, no odor	
FIELD COMMENTS	
	· · · · · · · · · · · · · · · · · · ·
······································	
FIELD ANALYSIS	
Temperature (*C): 20.67	
Specific Conductance (µmhos/cm³): 650	
pH (SU): 7.12	
ampler Name: J. Denney / D. Coleman	Affiliation:BMI

Client: <u>HYDROVISION, INC.</u> Site: <u>Spinnaker</u>	Coatings
Date: 9-7-00	
Monitoring Point Identification: PW-4	Monitoring Point Type: Spigot
Location: Treatment System Building Valve #4	
Static Water Level (ft): N/A	Well Depth (ft): N/A
One Well Volume (gal): N/A	Actual Purge Volume (gal): N/A
(depth) - (swl) = head head x conversion factor = conversion factor: 2" well diameter = 0.163 gal/ft	1 volume 1 vol. x 3 = purge volume 4" well diameter = 0.653 gal/ft
(0.16)	
Purging Device: N/A	Sampling Device: N/A
Immiscible Layers ?: N/A	Thickness:
Filtered?: N/A	Filter Type:
Weather Conditions:	
Sample Appearance and Odor: Clear, no odor	
FIELD COMMENTS	
. *	•
FIELD ANALYSIS	
Temperature (° C): 17.56	
Specific Conductance (µmhos/cm³): 630	•
pH (SU): 7.05	
mpler Name: J. Denney / D. Coleman	Affiliation:BMI

Client: HYDROVISION, INC. Site: Spinnake	er Coatings	
Date: 9-7-00		
Monitoring Point Identification: PW-1	Monitoring Point Type: 4" PVC	
Location: Manhole NE of Treatment Building		
Static Water Level (ft): 8.56	Well Depth (ft): 20.0	
One Well Volume (gal): 7.5	Actual Purge Volume (gal): 25.0	
(depth) - (swl) = head head x conversion factor conversion factor: 2" well diameter = 0.163 gal/ft	= 1 volume 1 vol. x 3 = purge volume 4" well diameter = 0.653 gal/ft	
(020.00 =) = (28.8.56 = 2) = 11.44 = 2 = 311.44	(0.653)=7.5)(3,3-7.5(3)=22.55.5-2.5-2.5-2.5-2.5-2.5-2.5-2.5-2.5-	Z
Purging Device: <u>Disposable Bailer</u>	Sampling Device: <u>Disposable Bailer</u>	
Immiscible Layers ?: N/A	Thickness:	
Filtered?: N/A	Filter Type:	
Weather Conditions:		
Sample Appearance and Odor: Cloudy, no odor	<u> </u>	
FIELD COMMENTS		
, some vegetation-like debris	 	
FIELD ANALYSIS		
Temperature (°C):_22.44		
Specific Conductance (µmhos/cm³): 703		
pH (SU): 7.39		
mpler Name: J. Denney / D. Coleman	Affiliation:BMI	

Client: HYDROVISION, INC. Site: Spinnake	er Coatings
Date: 9-7-00	
Monitoring Point Identification: <u>EEIB-2</u>	Monitoring Point Type: Spigot
Location: Treatment System Building Valve #1	
Static Water Level (ft): N/A	Well Depth (ft): N/A
One Well Volume (gal): N/A	Actual Purge Volume (gal): N/A
(depth) - (swl) = head head x conversion factor = conversion factor: 2" well diameter = 0.163 gal/ft	= 1 volume 1 vol. x 3 = purge volume 4" well diameter = 0.653 gal/ft
(0.16	
Purging Device: N/A	Sampling Device: N/A
Immiscible Layers ?: N/A	Thickness:
Filtered?: N/A	Filter Type:
Weather Conditions:	
Sample Appearance and Odor: Clear, no odor	
FIELD COMMENTS	
FIELD ANALYSIS	
Temperature (° C): 19.72	
Specific Conductance (µmhos/cm³): 700	
pH (SU): 7.03	
ampler Name: J. Denney / D. Coleman	Affiliation:BMI

Client: <u>HYDROVISION, INC.</u> Site: <u>Spinnake</u>	er Coatings
Date: 9-7-00	
Monitoring Point Identification: KMW-6	Monitoring Point Type: 2" PVC Flush Mount
Location: NW Treatment Bldg, Inside Fence	
Static Water Level (ft): 12.28	Well Depth (ft):20.0
One Well Volume (gal): 1.3	Actual Purge Volume (gal): 5.0
(depth) - (swl) = head head x conversion factor = conversion factor. 2" well diameter = 0.163 gal/ft	= 1 volume 1 vol. x 3 = purge volume 4" well diameter = 0.653 gal/ft
(5.20.0 S.4) E((5.2012)28年的第7.7215 全年17.72(0:163) 章13(3) 章39(2-2-3)
Purging Device: Disposable Bailer	Sampling Device: Disposable Bailer
Immiscible Layers ?: N/A	Thickness:
Filtered?: N/A	Filter Type:
Weather Conditions:	
Sample Appearance and Odor: Cloudy, no odor	
FIELD COMMENTS	
FIELD ANALYSIS	
Temperature (° C): 22.5	·
Specific Conductance (µmhos/cm³): 659	
рН (SU): <u>6.99</u>	
ampler Name: J. Denney / D. Coleman	Affiliation: BMI

Client: HYDROVISION, INC. Site: Spinnak	er Coatings
Date: 9-7-00	
Monitoring Point Identification: KMW-7	Monitoring Point Type: 2" PVC Flush Mount
Location: NW Treatment Bldg. Along Fence	
Static Water Level (ft): 12.67	Well Depth (ft): 20.0
One Well Volume (gal): 1.2	Actual Purge Volume (gal): 5.0
(depth) - (swl) = head head x conversion factor conversion factor: 2" well diameter = 0.163 gal/ft	= 1 volume 1 vol. x 3 = purge volume 4" well diameter = 0.653 gal/ft
表的是((· 20.0 元素) 子((汉六 12.67 飞) 章 7.33 是((宋. 5.47.33)	(0:163) = [125] (3) = [125] (3) = [125] (3) = [125] (4)
Purging Device: Disposable Bailer	Sampling Device: <u>Disposable Bailer</u>
Immiscible Layers ?: N/A	Thickness:
Filtered?: N/A	Filter Type:
Weather Conditions:	
Sample Appearance and Odor: Cloudy, no odor	<u> </u>
FIELD COMMENTS	
FIELD ANALYSIS	•
Temperature (° C): 20.61	
Specific Conductance (µmhos/cm³): 671	
pH (SU): 7.21	•
npler Name: J. Denney / D. Coleman	Affiliation: BMI

Client: HYDROVISION, INC. Site: Spinnake	er Coatings
Date: 9-7-00	
Monitoring Point Identification: KMW-8	Monitoring Point Type: 2" PVC Flush Mount
Location: NE Treatment Bldg. Outside Fence	
Static Water Level (ft): 12.57	Well Depth (ft): 28.0
One Well Volume (gal): 2.5	Actual Purge Volume (gal):8.0
(depth) - (swl) = head head x conversion factor = conversion factor: 2" well diameter = 0.163 gal/ft	
(元28:00)) ((元元12:57元)) [15:43 元元、	2;(15.43((0.163))=2.5)\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Purging Device: <u>Disposable Bailer</u>	Sampling Device: Disposable Bailer
Immiscible Layers ?: N/A	Thickness:
Filtered?: N/A	Filter Type:
Weather Conditions:	· · · · · · · · · · · · · · · · · · ·
Sample Appearance and Odor: Cloudy, no odor	
FIELD COMMENTS	
	
FIELD ANALYSIS	
Temperature (°C): 21.33	
Specific Conductance (µmhos/cm³): 581	
pH (SU): 6.29	
ipler Name: J. Denney / D. Coleman	Affiliation:BMI

Client: HYDROVISION, INC. Site: Spinnake	er Coatings
Date: 9-7-00	•
Monitoring Point Identification: KMW-9	Monitoring Point Type: 2" PVC Flush Mount
Location: Inside Electrical Cage	
Static Water Level (ft): 12.40	Well Depth (ft): 25.0
One Well Volume (gal): 2.05	Actual Purge Volume (gal): 7.0
(depth) - (swl) = head head x conversion factor conversion factor: 2" well diameter = 0.163 gal/ft	= 1 volume 1 vol. x 3 = purge volume 4" well diameter = 0.653 gal/ft
(£25.07.11) 5 (\$1.7812.40 £5) = 12.60 £5.212.60	D区(0.163) = 2.05 (エア・バート・2.05(3) = 6.2 (2010 アルドル・ファント・ファント・ファント・ファント・ファント・ファント・ファント・ファント
Purging Device: Disposable Bailer	Sampling Device: <u>Disposable Bailer</u>
Immiscible Layers ?: N/A	Thickness:
Filtered?: N/A	Filter Type:
Weather Conditions: Sample Appearance and Odor: Cloudy, no odor	·
FIELD COMMENTS	
Water in annulus over the wellcap	
- · · · · · · · · · · · · · · · · · · ·	
FIELD ANALYSIS	
Temperature (°C): 22.61	,
Specific Conductance (µmhos/cm³): 587	
pH (SU):7.48	
Sampler Name: J. Denney / D. Coleman	Affiliation: BMI

Client: HYDROVISION, INC. Site: Spinnake	er Coatings
Date: 9-7-00	
Monitoring Point Identification: EEIB -12	Monitoring Point Type: 2" PVC Flush Mount
Location: W of Electrical Tower	
Static Water Level (ft): 13.54	Weli Depth (ft): 20.0
One Well Volume (gal): 1.05	Actual Purge Volume (gal): 4.0
(depth) - (swl) = head head x conversion factor	= 1 volume 1 vol x 3 = purge volume
conversion factor: 2" well diameter = 0.163 gal/ft	4" well diameter = 0.653 gal/ft
6.46(±20.0 xx3)2(5.4 x13.54 ± 1) = 6.46 ± 12 x = 6.46(0.163.)≡1:05=5(3)=3.16
Purging Device: <u>Disposable Bailer</u> Immiscible Layers ?: <u>N/A</u>	Sampling Device: <u>Disposable Bailer</u> Thickness:
Filtered?: N/A	Filter Type:
Weather Conditions:	
Sample Appearance and Odor: Cloudy, no odor	
FIELD COMMENTS	
· .	
FIELD ANALYSIS	
Temperature (* C): 21.78	
Specific Conductance (µmhos/cm³): 623	
pH (SU): 7.25	
Sampler Name: J. Denney / D. Coleman	Affiliation:BMI

APPENDIX B ANALYTICAL RESULTS AND CHAIN-OF-CUSTODY FORMS





Shipping: 4518 Taylorsville Rd. Dayton, OH 45424 Mailing: P.O.Box 51 Dayton, OH 45401-0051

937-236-8805 937-237-9947 FAX

LABORATORY REPORT

TO: JOSEPH D. SAUNDERS (@ BMI)

HYDROVISION, INC.

7094 PEACHTREE INDUSTRIAL BLVD

SUITE 300

NORCROSS, GA 30371

Report Date: 09/26/00 Job Number: 118292

Group No. : 32589 Sample No. : 008734

Auth/P.O.# :

Sample Identification: EPPLUENT

Date Sampled: 09/07/00

Date Received: 09/08/00

Analysis Description	Result	Units	MRL*	Method	Date/Analyst
Total Organic Carbon Solids, Suspended	4 : 7 4 : 0	mg/L mg/L	1.0	EPA 415.1 EPA 160.2	09/12/00 drb

Submitted by,

Thomas M. Ryan, Senior Chemist Analytical Services Division

* MRL = Hethod Report Limit



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Mailing: P.O.Box 51 Dayton, OH 45401-0051

937-236-8805 937-237-9947 FAX

LABORATORY REPORT

TO: JOSEPH D. SAUNDERS (@ BMI)

HYDROVISION, INC.

7094 PEACHTREE INDUSTRIAL BLVD

SUITE 300

NORCROSS, GA 30371

Report Date: 09/26/00

Job Number : 118292

Group No. : 32589

Sample No. : 008733

Auth/P.O.# :

Sample Identification: INFLUENT

Date Sampled: .09/07/00

Date Received: 09/08/00

Analysis Description	Result	Units	MRL*	Method	Date/Analyst
Acenaphthene	(MRL	_mg/L	o <u></u> .0050	EPA_8100	09/15/00_drb
Acenaphthylene	CMRL	mg/L	0.0050	EPA 8100	09/15/00 džb
Anthracene	<mrl< td=""><td>mg/L</td><td>00.05.0</td><td>EPA_B100</td><td>09/15/00 drb</td></mrl<>	mg/L	00.05.0	EPA_B100	09/15/00 drb
Benzo(a) Anthracene	(MRL	mg/L	0.0050	BPA 8100	09/15/00 drb
Benzo(a) Pyrene	(MRL	mg/L	0_0,0050_	EPA 8100	
Benzo(k)Fluoranthene	KRL	mg/L	0.00.50	EPA_8100	09/15/00 drb
Benzo(g,h,i) Perylene	MILL (MRL)	ang/Lillian	amo 00050m	BPA 8100	2209/15/00/drb
Chrysene Dibenzo(a,h)Anthracene	(MRL (MRL	mg/L mg/L	0.0050 025	EPA 8100 EPA 8100	09/15/00 drb
Fluorene Fluorene	(MRL	mg/L	0.0050	EPA 8100	09/15/00 drb
Indeno(1,2,3-cd) Pyrene		mg/L	0.0050	EPA 8100	09/15/00 drb
Naphthalene:					
Phenanthrene Pyrene	(MRL	mg/L mg/L	0.0050 0.0050	epa 8100 Bpa 8100	09/15/00 drb
					oralesia accessor a company a

Submitted by,

* MRL = Hethod Report Limit

Thomas M. Ryan, Sentor Chemist Analytical Services Division



Shipping: 4518 Taylorsville Rd. Dayton, OH 45424 Mailing: P.O.Box 51 Dayton, OH 45401-0051

937-236-8805 937-237-9947 FAX

LABORATORY REPORT

TO: JOSEPH D. SAUNDERS (@ BMI)

HYDROVISION, INC.

7094 PEACETREE INDUSTRIAL BLVD

SUITE 300

NORCROSS, GA 30371

Report Date: 09/26/00

Job Number : 118292 Group No. : 32589

Sample No. : 008734

Auth/P.O.# :

Sample Identification: EFFLUENT

Date Sampled: 09/07/00

Date Received: 09/08/00

Analysis Description	Result	Units	MRL*	Method	Date/Analyst
Acenaphthene	(MRL	mg/L	0.0050 E	PA 8100	09/15/00_drb
Acenaphthylene					
Anthracene	(MRL			PA_8100	09/15/00.drb
Benzo (a) Anthracene	(MRL	mg/L		PA 8100	
Benzo(a) Pyrene	(MRL	mg/L	O. 0050 E	PA_8100	09/15/00_drb
Benzo (b) Fluoranthens	CHRL	mg/L ii	.0.0050 Z	PA 8100	209/15/00 drb
Benzo(k) Fluoranthene	<mrl< td=""><td>.mg/L</td><td>0.0050_E</td><td>PA 8100</td><td>09/15/00_drb</td></mrl<>	.mg/L	0.0050_E	PA 8100	09/15/00_drb
Benzo(g,h,i)Perylone	(NRL	mg/L		PA 8100	09/15/00 drb
Chrysene	(MRL	.mg/L	0.0050_z	PA_8100	09/15/00_drb
Dibenzo(a, h) Anthracene	CMRL	.mg/L	0.0050 E	PA 8100	09/15/00 drb
Fluoranthene	(MRL	mg/L	O.0050_E	PA 8100	09/15/00_drb
Yluorene	CMRL	mg/L			09/15/00.drb
Indeno(1,2,3-cd)Pyrene	(MRL	mg/L	_0.0050_E	PA 8100	09/15/00_drb
Naphthalene	OMBL	mg/L	∡D.0050 ⊉	PA 8100	09/15/00 drb
Phenanthrene	(MRL	mg/L	O.0050_E	PA_8100	09/15/00_drb
Pyrene	MRL	mg/L	0050\E	PA 8100	09/15/00 drb
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Submitted by,

* MRL = Method Report Limit

Thomas M. Ryan, Senior Chemist Analytical Services Division



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937-236-8805 937-237-9947 FAX

LABORATORY REPORT

TO: JOSEPH D. SAUNDERS (@ BMI)

HYDROVISION, INC.

7094 PEACHTREE INDUSTRIAL BLVD

SUITE 300

NORCROSS, GA 30371

Report Date: 09/26/00

Job Number : 118292

Group No. : 32589

Sample No. : 008733

Auth/P.O.# .:

Sample Identification: INFLUENT

Date Sampled: 09/07/00

Date Received: 09/08/00

Analysis Description	Result	Unite	MRL*	Method	Date/Analyst
Acrolein Acrolein	(MRL	mg/L	0.040 E	PA 8260B	09/17/00 drb
Acrylonitrile Benzene	- Zwor	ug/L	100.0E	PA 8260B	09/17/00:drb
Bromodichloromethane Bromoform	(MRL	ma/L·	0.0050 🕏	DA ROKAR	00/17/00 A-L
Bromomethane Carbon disulfide	(MRL	mg/L	0.010 E	PA 8260B	09/17/00 drb
Carbon tetrachloride Chlorobenzene	CMRL	mg/L	0.0050 E	PA.8260B PA.8260B	09/17/00%drb
Chloroethane		mg/L	0.0050 E	PA 8260B	09/17/00 Arb
2-Chloroethylvinyl ether Chloroform Chloromethane	(MRL	mg/L mg/L	0.010 K	PA 8260B	09/17/00 drb
Chlorodibromomethane Dibromomethane	CONTRACT	ng/L		PA 8260B PA 8260B	09/17/00 drb
1,4-Dichlorobenzane	(MRL	mg/L	0.0050 E	PA 8250B	09/17/00 deb
cis-1,3.Dichloropropene trans-1,3- Dichloropropene	KMRL	mg/L	0.0050 E	PA 8260B	09/17/00 Arb
Dichlorodifluoromethane 1,1-Dichloroethane 1,2-Dichloroethane	CMRL.	mg/L	0.0050.E	PA 8260B	09/17/00.drb
1.1-Dichloroethene	CMDT.	ma / T.	A AASA WI	. 02605	00/17/00 4-5
trans=1,2-Dichloroethene 1,2-Dichloropropane Ethylbenzene	CMRL	ing/listal .mg/L	.0.0050 ki	PA 8260B	09/17/00 drb
Ethylbenzene 2-Hexanone (MEK) 2-Butanone (MEK)	MRL (MRL	ing/Like	.0.020 21	PA 8260B	09/17/00 drb
A_Methly_2_pentanone_(MIBK)	<pre><mrl< pre=""></mrl<></pre>	.mg/L	0.020 EF	A 8260B	09/17/00 Arb
Methylene Chloride	WRL W	mg/Less	0.0050 E	A 8260B	09/17/00 drb

Submitted by,

* MRL = Method Report Limit

Thomas M. Ryan, Senior Chemist Analytical Services Division



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937-236-8805 937-237-9947 FAX

LABORATORY REPORT

TO: JOSEPH D. SAUNDERS (@ BMI)

HYDROVISION, INC.

7094 PEACHTREE INDUSTRIAL BLVD

SUITE 300

NORCROSS, GA 30371

Report Date: 09/26/00

Job Number : 118292

Group No. : 32589 Sample No. : 008733

Auth/P.O.# :

Sample Identification: INPLUENT

Date Sampled: 09/07/00

Date Received: 09/08/00

Analysis Description	Result	Unite	MRL*	Method	Date/Analyst
Styrene 1,1,2,2-Tetrachloroethane		mg/L	0.0050 Z	PA 8260B	09/17/00_drb
Tetrachloroathene Toluene	(MRL	mg/L	0.0050.E	PA 8260B	09/17/00:drb
1.1.1-Trichloroethane	<mrl< td=""><td>_mg/L</td><td>0.0050E</td><td>PA_8260B</td><td>09/17/00 drb</td></mrl<>	_mg/L	0.0050E	PA_8260B	09/17/00 drb
Trichloroethene Trichlorofiuoromethane	(MRL	mg/L	0.0050 E	PA 8260B	09/17/00_drb
1.2.3-Trichloropropane Vinyl Acetate	(MRL CURL	mg/L	0.0050 Z	PA 8260B	09/17/00 drb
Vinyl_Chloride Xylenes 2(total)	(MRL	mg/L	0.0050 E	PA 8260B	09/17/00 drb
CIS - 1,2 Dichloroethene	<mrl< td=""><td>mg/L</td><td>0.005 E</td><td>PA 8260B</td><td>09/17/00 drb</td></mrl<>	mg/L	0.005 E	PA 8260B	09/17/00 drb
			A		
					200

Submitted by,

* MRL = Method Report Limit

Thomas M. Ryan, Senior Chemist Analytical Services Division



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937-236-8805 937-237-9947 FAX

LABORATORY REPORT

TO: JOSEPH D. SAUNDERS (@ BMI)

HYDROVISION, INC.

7094 PEACHTREE INDUSTRIAL BLVD

SUITE 300

NORCROSS, GA 30371

Report Date: 09/25/00

Job Number : 118292 Group No. : 32589 Sample No. : 008734

Auth/P.O.# :

Sample Identification: RPPLUENT

Date Sampled: 09/67/00

Date Received: 09/08/00

Analysis Description	Result	Units	MRL*	Method	Date/Analyst
Acetone Acrolein	(MRL	mg/L	0.040	EPA 8260B	09/18/00 drb
Acrylonitrile Benzene		_ug/L	100,.0	EPA_8260B	09/18/00_drb
	(MRL	mg/L	00050	"EPA8260B	09/18/00_drb
Bromomethane Carbon disulfide					
Carbon tetrachloride Chlorobenzene		mg/L mg/L	0.0050	_EPA_8260B _EPA_8260B	09/18/00 drb 09/18/00 drb
Chloroethylvinyl ether	(MRL	2mg/L	0.010	BPA 82608	2209/18/00 drb
Chloromethane	(MRL	mg/L Mg/L	0.0050 0:0050	_EPA_8260B _EPA_8260B	09/18/00 drb
Chlorodibromomethane Dibromomethane	(MRL	ing/L	3:0.0050	EPA 8260B	09/18/00 drb
1.4-Dichlorobenzene cis-1:3 Dichloropropene	(MRL)	ämg/Lil	20.00S0		209/18/00 drb
trans-1,3- Dichloropropene Dichlorodifluoromethane	(MRL	leg/L	0.0050	BPA 8260B	
1,1-Dichloroethane 1,2-Dichloroethane	(MRL	mg/L	0.0050	EPA 8260B	09/18/00 drb
1,1-Dichloroethene trans-1,2-Dichloroethene 1,2-Dichloropropane	(MRL)	eg/Lake	00050	SEPA 8260B	
Ethylbenzene 2-Hexanone (MBK)	(MRL	mg/Lil	∴o≎ŏóŠó	PPA 82608	09/18/00 drb
2-Butanone (MEK) 4-Methly-2-pentanone (MIBK)	(MRL	mg/L	0.020	EPA 8260B	09/18/00 drb
Methylene Chloride	CMRL	mg/L		ZPA 82608	09/18/00 drb

Submitted by,

* MRL = Method Report Limit

Thomas M. Ryan, Senior Chemist Analytical Services Division



Shipping: 4518 Taylorsville Rd. Dayton, OH 45424 Mailing: P.O.Box 51 Dayton, OH 45401-0051

937-236-8805 937-237-9947 FAX

LABORATORY REPORT

TO: JÖSEPH D. SAUNDERS (@ BMI)

HYDROVISION, INC.

7094 PEACHTREE INDUSTRIAL BLVD

SUITE 300

NORCROSS, GA 30371

Report Date: 09/26/00

Job Number : 118292

Group No. : 32589 Sample No. : 008734

Auth/P.O.# :

Sample Identification: EFFLUENT

Date Sampled: 09/67/00

Data Received: 09/08/00

Analysis Description	Result	Units	MRL*	Method	Date/Analyst
Styrene	(MRL	_mg/L	0.0050_E	A_8260B	09/18/00 drb
1,1,2,2-Tetrachloroethane	(MRL)	mg/L		A 8260B	
Tetrachloroethene	(MRL		0.0050_E	A 8260B	09/18/00_drb
Toluene	(MRL	Lmg/L	O.CO50.E	A 8260B	09/18/00.drb
1,1,1-Trichloroethane	(MRL	"mg/L	0.0050_EF	A_8260B	09/18/00 drb
1,1,2-Trichloroethane	(MRL	mg/L		A 8260B	09/18/00.drb
Trichloroethene	< MRL	.mg/L	0_0050_EE	A 8260B	09/18/00 drb
Trichlorofluoromethane	(MRL	ing/L	O. 0050BE	A 8260B	09/18/00.drb
1,2,3-Trichloropropane	(MRL	_mg/L	O.QO50 EF	A_6260B	09/18/00 drb
Vinyl Acetate	(MRL	mg/L	0.010 EF	A 8260B	09/18/00 drb
Vinyl Chloride	MRL	mg/L	,,,,0,,0,050,,EP	A_8260B	09/18/00_drb
Xylenes (total)		•			09/18/00 drb
CIS - 1,2 Dichloroethene	< MRL	mg/L	0.005 EF	A 8260B	09/18/00 drb
	ii ista kittilisiis		Giger 3 - Chrosophysych de	Suiteleyd (1828 an 1881) an a	Simulateristicioni (1501) il internationale (1
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	ACTION TO THE STREET		Sallia Maria Sallia		

Submitted by,

* MRL = Method Report Limit

Thomas M. Ryan, Senior Chemist Analytical Services Division



CORPORATE OFFICE

4518 Taylorsville Road Phone (937) 236-8805 Fax (937) 237-9947

CHAIN OF CUSTODY RECORD

DISTRICT OFFICES

Shipping Address: 122 S. St. Clair St. Toledo, OH 43602 Phone (419) 255-8200 Fax (419) 255-7935

2416-8 Over Drive Lexington, KY 40510 Phone (606) 233-0250 Fax (606) 253-0183

BILL TO: MAIL TO:				_	-		MAIL TO:	-							COPY TO:	
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	9/7/	00	1430	W	ater		X	Influent	١	16					X	PAH Method 8100
	ſ		V	Ì	{		11	11	Z	40ml			X			Voc Method 8240*
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STL Pensacola LOG NO: . C0-09167 Received: 08 SEP 00 Reported: 19 SEP 00

HydroVision, Inc. 7094 Peachtree Executive Park Suite 300 Norcross, GA 30071

Project: KC-BROWN-BRIDGE

Sampled By: Client

Code: 091800919 Page 1

REPORT	OF.	RESULTS	
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LOG NO	SAMPLE DESCRIPTION ,		MPLES		DATE/ TIME SAMPLED	
					09-07-00/12:	47
09167-1					09-07-00/12:	
	PW - 2				09-07-00/12:	
	PW-3				09-07-00/12:	
	PW-4				09-07-00/12:	
09167-5	KMW-6	. 				
PARAMETER		09167-1	09167-2	09167-3	09167-4	09167-5
Volatile O	rganic Compounds (8260))				
Benzene,		<5.0	<5.0	<5.0	<5.0	
Bromobenz		<5.0	<5.0	<5.0	<5.0	
	romethane, ug/l	<5.0	<5.0	<5.0	<5.0	
Bromodich	loromethane, ug/l	<5.0	<5.0	<5.0	<5.0	
Bromoform		<5.0	<5.0	<5.0	<5.0	
	ane (Methyl	<5.0	<5.0	<5.0	<5.0	<5.0
bromide)						
	trachloride, ug/l	<5.0	<5.0	<5.0	<5.0	
	zene, ug/l	<5.0	<5.0	<5.0	<5.0	
	ane, ug/l	<5.0	<5.0	<5.0	<5.0	
Chlorofor		<5.0	<5.0	<5.0	<5.0	
	hane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
	oluene, ug/l	<5.0	<5.0	<5.0	<5.0	
	coluene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
	loromethane, ug/l	<5.0		<5.0	<5.0	<5.0
	thane (Methylene	<5.0		<5.0	<5.0	<5.0
bromide)						
	omoethane (EDB), ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
	lorobenzene, ug/l	<5.0			<5.0	<5.0
	lorobenzene, ug/l	<5.0			<5.0	<5.0
	lorobenzene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0



STL Pensacola LOG NO: · C0-09167 Received: 08 SEP 00 Reported: 19 SEP 00

HydroVision, Inc. 7094 Peachtree Executive Park Suite 300 Norcross, GA 30071

Project: KC-BROWN-BRIDGE

Sampled By: Client

Code: 091800919 Dage 2

DEDODE OF DECIMAC

		REPORT	OF RESULTS			Page 2
					DATE/	
LOG NO	SAMPLE DESCRIPTION ,	LIQUID	SAMPLES		TIME SAMPLED	
09167-1	PW-1				09-07-00/12:47	
09167-2	PW-2				09-07-00/12:15	
	PW-3				09-07-00/12:25	
	PW-4				09-07-00/12:07	
	KMW-6				09-07-00/12:50	İ
PARAMETER		09167-1	09167-2	09167-3	09167-4	09167-5
Dichlorodi	Eluoromethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
	roethane, ug/l	<5.0		9.9	<5.0	<5.0
,	roethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
	roethene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Die	chloroethene, ug/l	<5.0	<5.0	45		<5.0
trans-1,2-	Dichloroethene, ug/l	<5.0		<5.0		<5.0
1,2-Dichlor	ropropane, ug/l	<5.0		<5.0		<5.0
	ropropane, ug/l	<5.0		<5.0		<5.0
2,2 Dichlor	ropropane, ug/l	<5.0		<5.0		<5.0
cis-1,3-Dic	chloropropene, ug/l	<5.0		<5.0		<5.0
trans-1,3-	Dichloropropene, ug/l	<5.0		<5.0		<5.0
Ethylbenzer	ne, ug/l	<5.0		<5.0		<5.0
	butadiene, ug/l	<5.0		<5.0		<5.0
	enzene (Cumene), ug/l	<5.0		<5.0		<5.0
p-Isopropy:	ltoluene, ug/l	<5.0		<5.0		<5.0
Methylene (<5.0	<5.0	<5.0	<5.0	<5.0
	methane), ug/l					
Methyl t-b	utyl ether (MTBE), ug,			<5.0		<5.0
Naphthalen	e, ug/l	<5.0		<5.0		<5.0
n-Butylben:	zene, ug/l	<5.0		<5.0		<5.0
n-Propylber	nzene , ug/l	<5.0		<5.0		<5.0
sec-Butylb	enzene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0



STL Pensacola LOG NO: - C0-09167 Received: 08 SEP 00 Reported: 19 SEP 00

HydroVision, Inc. 7094 Peachtree Executive Park Suite 300 Norcross, GA 30071

Project: KC-BROWN-BRIDGE

Sampled By: Client Code: 091800919

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PEPORT	OF	RESULTS

			OF RESULTS		DATE/ TIME SAMPLED	rage 3
LOG NO	SAMPLE DESCRIPTION ,	PIGOID S	MALTES		TIME SAMEDED	
09167-1	PW-1				09-07-00/12:	47
	PW-2				09-07-00/12:	15
	PW-3				09-07-00/12:	25
	PW-4				09-07-00/12:	07
	KMW-6				09-07-00/12:	50
PARAMETER		09167-1	09167-2	09167-3	09167-4	09167-5
Styrene, w	uq/l	<5.0	<5.0	<5.0	<5.0	<5.0
-	nzene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
	etrachloroethane, ug/1	<5.0	<5.0	<5.0		
	etrachloroethane, ug/l	<5.0	<5.0	<5.0		
	roethene, ug/l	<5.0	<5.0	<5.0		
Toluene, 1		<5.0	<5.0	<5.0		
	chloroethane, ug/l	<5.0	<5.0	11	<5.0	
	chloroethane, ug/l	<5.0	<5.0	<5.0		
	chlorobenzene, ug/l	<5.0	<5.0	<5.0		
	chlorobenzene, ug/l	<5.0	<5.0	<5.0		
Trichloro	ethene, ug/l	<5.0		12		
	fluoromethane, ug/l	<5.0	<5.0	<5.0		
1,2,3-Tri	chloropropane, ug/l	<5.0		<5.0		
1,2,4-Tri	methylbenzene, ug/l	<5.0	<5.0	<5.0		
1,3,5-Tri	methylbenzene, ug/l	<5.0	<5.0	<5.0		
Vinyl chlo	oride, ug/l	<5.0		9.2		
o-Xylene,	ug/1	<5.0	<5.0	<5.0		<5.0
m&p-Xylen	e, ug/l	<10		<10		
	- Dibromofluoromethan	e 91 %		104 %		
Surrogate	- Toluene-d8	107 %		109 %		
Surrogate	- 4-Bromofluorobenzen	e 108 %	113 %	114 %		106 %
Analyst	•	WD	WD	WD		WD
Analysis	Date	09.11.00				09.11.00
Batch ID		LEW190		LEW190		LEW190
Prep Meth	od	5030	5030	5030		5030
Dilution	Factor	1	1	1	1	1



STL Pensacola LOG NO: - C0-09167 Received: 08 SEP 00 Reported: 19 SEP 00

HydroVision, Inc. 7094 Peachtree Executive Park Suite 300 Norcross, GA 30071

Project: KC-BROWN-BRIDGE

Sampled By: Client

Code: 091800919

		REPORT O	F RESULTS	1	DATE/	Page 4
LOG NO	SAMPLE DESCRIPTION ,	LIQUID SA	MPLES	•	TIME SAMPLED)
09167-6 09167-7 09167-8 09167-9					09-07-00/12: 09-07-00/13: 09-07-00/13: 09-07-00/11:	04 00
09167-10					09-07-00/12	57
PARAMETER			09167-7		09167-9	09167-10
Volatile Or	ganic Compounds (8260)				
Benzene, u		<5.0	<5.0	<5.0	<5.0	<5.0
Bromobenze		<5.0	<5.0	<5.0	<5.0	<5.0
	omethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
	oromethane, ug/1	<5.0	<5.0	<5.0	<5.0	<5.0
Bromoform,		<5.0	<5.0	<5.0	<5.0	<5.0
Bromometha	- ·	<5.0	<5.0	<5.0	<5.0	<5.0
bromide),	-					
	rachloride, ug/l	<5. 0	<5.0	<5.0		<5.0
Chlorobenz	_		<5.0			<5.0
Chloroetha			<5.0			<5.0
Chloroform	· · ·	<5.0	<5.0	<5.0	<5.0	
Chlorometh	·	<5.0	<5.0	<5.0	<5.0	
2-Chloroto	luene, ug/l	<5.0		<5.0	<5.0	
4-Chloroto	luene, ug/l	<5.0	<5.0			
	oromethane, ug/l	<5.0	<5.0			
Dibromomet bromide),	hane (Methylene	<5.0	<5.0	<5.0	<5.0	<5.0
	oethane (EDB), ug/l	<5.0	<5.0	<5.0	<5.0	
	robenzene, ug/l	<5.0	<5.0	<5.0	<5.0	
	robenzene, ug/l	<5.0		<5.0		<5.0
	robenzene, ug/l		<5.0	<5.0	<5.0	<5.0



STL Pensacota LOG NO: - C0-09167 Received: 08 SEP 00 Reported: 19 SEP 00

HydroVision, Inc. 7094 Peachtree Executive Park Suite 300 Norcross, GA 30071

Project: KC-BROWN-BRIDGE

Sampled By: Client

Code: 091800919 Page 5

REPOR	ጥ ብክ	무단의	פיד.דו

LOG NO	SAMPLE DESCRIPTION ,		F RESULTS		DATE/ TIME SAMPLEI	rage 5
09167-6	KMW-7			(09-07-00/12:	40
09167-7	KMW-8			(9-07-00/13:	04
	KMW-9			(09-07-00/13:	:00
09167-9				(09-07-00/11:	:55
09167-10					09-07-00/12:	57
PARAMETER		09167-6	09167-7	09167-8	09167-9	09167-10
Dichloredi	fluoromethane, ug/l	 <5.0	<5.0	<5.0	<5.0	<5.0
	roethane, ug/1	<5.0	<5.0	<5.0	<5.0	<5.0
	roethane, ug/l		<5.0	<5.0	<5.0	<5.0
	roethene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
	chloroethene, ug/l	<5.0	19	5.2	<5.0	<5.0
	Dichloroethene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
•	ropropane, ug/1	<5.0	<5.0	<5.0	<5.0	<5.0
	ropropane, ug/l	<5.0	<5.0	<5.0		<5.0
	ropropane, ug/l	<5.0	<5.0	<5.0		<5.0
	chloropropene, ug/l	<5.0	<5.0	<5.0		<5.0
	Dichloropropene, ug/l	<5.0	<5.0	<5.0		<5.0
Ethylbenze		<5.0	<5.0	<5.0		<5.0
	butadiene, ug/l	<5.0	<5.0	<5.0		<5.0
Isopropylb	enzene (Cumene), ug/l	<5.0-	<5.0	<5.0		
	ltoluene, ug/l	<5.0	<5.0			
Methylene		<5.0	<5.0	<5.0	<5.0	•
	outyl ether (MTBE), ug	/1 <5.0	<5.0	<5.0	<5.0	<5.0
Naphthaler		<5.0	<5.0	<5.0	<5.0	<5.0
	nzene, ug/l	<5.0	<5.0	<5.0		
	enzene , ug/l	<5.0	<5.0	<5.0		
	penzene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0



STL Pensacola

LOG NO: CO-09167 Received: 08 SEP 00 Reported: 19 SEP 00

HydroVision, Inc. 7094 Peachtree Executive Park Suite 300 Norcross, GA 30071

Project: KC-BROWN-BRIDGE

Sampled By: Client

Code: 091800919 Page 6

REPORT OF RESULTS

Date			KLFOKI (or Kesoers			rage o
09167-6 KMW-7 09167-7 KMW-8 09167-7 KMW-8 09167-9 KMW-9 09167-9 EEIB-2 09167-10 EEIB-12 09-07-00/13:00 09167-9 O9167-10 EEIB-12 09-07-00/13:00 09-07-00/12:57 PARAMETER						•	
09167-7 KMW-8 09-07-00/13:04 09167-8 KMW-9 09-07-00/13:04 09167-9 EEIB-2 09-07-00/13:05 09-07-00/13:05 09-07-00/13:05 09-07-00/13:05 09-07-00/13:05 09-07-00/13:05 09-07-00/13:05 09-07-00/13:05 09-07-00/13:05 09-07-00/13:55 09-07-00/12:57	LOG NO	SAMPLE DESCRIPTION ,	LIQUID SA	AMPLES		TIME SAMPLE)
O9167-8 KMW-9 O9-07-00/13:00 O9167-9 O9167-9 EEIB-2 O9-07-00/13:55 O9167-10 EEIB-12 O9-07-00/12:57 O9167-10	09167-6	KMW-7				09-07-00/12	: 40
O9167-8 KMW-9 O9-07-00/13:00 O9167-9 O9167-9 EEIB-2 O9-07-00/11:55 O9-07-00/12:57 O9167-10 EEIB-12 O9-07-00/12:57 O9-0	09167-7	KMW-8				09-07-00/13	: 04
09167-9 EEIB-1 09-07-00/11:55 09167-10 EEIB-12 09-07-00/12:57 PARAMETER	09167-8	KMW-9				09-07-00/13	: 00
O9167-10 EEIB-12 O9167-6 O9167-7 O9167-8 O9167-9 O9167-10 Styrene, ug/1 O9167-8 O9167-9 O9167-10 Styrene, ug/1 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0	09167-9	EEIB-2					
Styrene, ug/l <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0	09167-10	EEIB-12				09-07-00/12	:57
Styrene, ug/l <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0				09167-7	09167-8	09167-9	09167-10
t-Butylbenzene, ug/l				 5.0	<5.0	<5.0	<5.0
1,1,1,2-Tetrachloroethane, ug/l <5.0							
1,1,2,2-Tetrachloroethane, ug/l	1 1 1 2-Te	trachloroethane ug/l					
Tetrachloroethene, ug/l	1 1 2 2-Te	trachloroethane, ug/l	20				
Toluene, ug/l		_ · · · · · · · · · · · · · · · · · · ·					
1,1,1-Trichloroethane, ug/l							
1,1,2-Trichloroethane, ug/l							
1,2,3-Trichlorobenzene, ug/l							
1,2,4-Trichlorobenzene, ug/l <5.0							<5.0
Trichloroethene, ug/l							
Trichlorofluoromethane, ug/l				<5.0	16	<5.0	<5.0
1,2,3-Trichloropropane, ug/l <5.0					<5.0	<5.0	<5.0
1,2,4-Trimethylbenzene, ug/l		·	<5.0	<5.0	<5.0	<5.0	<5.0
1,3,5-Trimethylbenzene, ug/l <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0			<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl chloride, ug/l <5.0			<5.0	<5.0	<5.0	<5.0	<5.0
o-Xylene, ug/l			<5.0	<5.0	<5.0	<5.0	<5.0
m&p-Xylene, ug/l <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10	•		<5.0	<5.0	<5.0	<5.0	<5.0
Surrogate - Dibromofluoromethane 103 % 107 % 116 % 101 % 103 % Surrogate - Toluene-d8 107 % 109 % 114 % 108 % 106 % Surrogate - 4-Bromofluorobenzene 111 % 112 % 117 % 110 % 111 % Analyst WD WD WD WD WD WD Analysis Date 09.11.00 09.11.00 09.11.00 09.11.00 09.11.00 09.11.00 Batch ID LEW190 LEW190 LEW190 LEW190 LEW190 LEW190 Prep Method 5030 5030 5030 5030 5030			<10	<10	<10	<10	<10
Surrogate - Toluene-d8 107 % 109 % 114 % 108 % 106 % Surrogate - 4-Bromofluorobenzene 111 % 112 % 117 % 110 % 111 % Analyst WD WD WD WD WD WD Analysis Date 09.11.00 09.11.00 09.11.00 09.11.00 09.11.00 09.11.00 Batch ID LEW190 LEW190 LEW190 LEW190 LEW190 LEW190 Prep Method 5030 5030 5030 5030 5030			103 %	107 %	116 %	101 %	103 %
Surrogate - 4-Bromofluorobenzene 111 % 112 % 117 % 110 % 111 % Analyst WD WD WD WD WD WD Analysis Date 09.11.00 09.11.00 09.11.00 09.11.00 09.11.00 09.11.00 09.11.00 Batch ID LEW190 LEW190 LEW190 LEW190 LEW190 LEW190 Prep Method 5030 5030 5030 5030 5030				109 %	114 %	108 %	106 %
Analysis Date 09.11.00 09.11.00 09.11.00 09.11.00 09.11.00 Batch ID LEW190 LEW190 LEW190 LEW190 LEW190 Prep Method 5030 5030 5030 5030 5030			111 %	112 %	117 %	110 %	111 %
Batch ID LEW190 LEW190 LEW190 LEW190 LEW190 DEW190 LEW190 DEW190 DEW19	Analyst		WD	WD	WD	WD	WĐ
Batch ID LEW190 LEW190 LEW190 LEW190 LEW190 DEW190 LEW190 DEW190 DEW19	Analysis D	ate 0	9.11.00	09.11.00	09.11.00	09.11.00	09.11.00
	_		LEW190	LEW190	LEW190	LEW190	LEW190
· · · · · · · · · · · · · · · · · · ·	Prep Metho	od.	5030	5030	5030	5030	5030
	Dilution F	'actor	1	1	1	1	1



STL Pensacota LOG NO: · C0-09167 Received: 08 SEP 00 Reported: 19 SEP 00

HydroVision, Inc. 7094 Peachtree Executive Park Suite 300 Norcross, GA 30071

Project: KC-BROWN-BRIDGE

Sampled By: Client Code: 091800919

REPORT OF R	ESULTS Page 7 DATE/
LOG NO SAMPLE DESCRIPTION , LIQUID SAMPL	·
09167-11 TRIP BLANK	09-07-00
DADIMETED	09167-11
Volatile Organic Compounds (8260)	
Benzene, ug/l	<5.0
Bromobenzene, ug/l	<5.0
Bromochloromethane, ug/l	<5.0
Bromodichloromethane, ug/l	<5.0
Bromoform, ug/l	<5.0
Bromomethane (Methyl bromide), ug/l	<5.0
Carbon tetrachloride, ug/l	<5.0
Chlorobenzene, ug/l	<5.0
Chloroethane, ug/l	<5.0
Chloroform, ug/l	<5.0
Chloromethane, ug/l	<5.0
2-Chlorotoluene, ug/l	<5.0
4-Chlorotoluene, ug/l	<5.0
Dibromochloromethane, ug/l	<5.0
Dibromomethane (Methylene bromide), ug/l	<5.0
1,2-Dibromoethane (EDB), ug/l	<5.0
1,2-Dichlorobenzene, ug/l	<5.0
1,3-Dichlorobenzene, ug/l	<5.0
1,4-Dichlorobenzene, ug/l	<5.0
Dichlorodifluoromethane, ug/l	<5.0
1,1-Dichloroethane, ug/l	<5.0
1,2-Dichloroethane, ug/l	<5.0
1,1-Dichloroethene, ug/l	<5.0
cis-1,2-Dichloroethene, ug/l	<5.0
trans-1,2-Dichloroethene, ug/1	<5.0



STL Pensacola

LOG NO: C0-09167 Received: 08 SEP 00 Reported: 19 SEP 00

HydroVision, Inc. 7094 Peachtree Executive Park Suite 300 Norcross, GA 30071

Project: KC-BROWN-BRIDGE

Sampled By: Client

Code: 091800919 Page 8

REPORT	OF	RESULTS

	_
DATE/	

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES		TIME SAMPLED
09167-11	TRIP BLANK		00 00 00
DADAMETED		09167-11	
	oropropane, ug/l	<5.0	
	oropropane, ug/l	<5.0	
	oropropane, ug/l	<5.0	
	ichloropropene, ug/l	<5.0	
	-Dichloropropene, ug/l	<5.0	
Ethylbenz	ene, ug/l	<5.0	
	obutadiene, ug/l	<5.0	
Isopropyl	benzene (Cumene), ug/l	<5.0	
p-Isoprop	yltoluene, ug/l	<5.0	
Methylene	chloride (Dichloromethane), ug/l	<5.0	
Methyl t-	butyl ether (MTBE), ug/l	<5.0	
Naphthale	ne, ug/l	<5.0	
n-Butylbe	nzene, ug/l	<5.0	
n-Propylb	enzene , ug/l	<5.0	
sec-Butyl	benzene, ug/l	<5.0	
Styrene,	ug/l	<5.0	
t-Butylbe	nzene, ug/l	<5.0	
1,1,1,2-T	etrachloroethane, ug/l	<5.0	
	etrachloroethane, ug/l	<5.0	
Tetrachlo	roethene, ug/l	<5.0	
Toluene,	ug/l	<5.0	
1,1,1-Tri	chloroethane, ug/l	<5.0	
	chloroethane, ug/l	<5.0	
	chlorobenzene, ug/l	<5.0	
1,2,4-Tri	chlorobenzene, ug/l	<5.0	
Trichloro	ethene, ug/l	<5.0	



STL Pensacota LOG NO: 'C0-09167 Received: 08 SEP 00 Reported: 19 SEP 00

HydroVision, Inc. 7094 Peachtree Executive Park Suite 300 Norcross, GA 30071

Dilution Factor

Project: KC-BROWN-BRIDGE

1

Sampled By: Client

Code: 091800919 Page 9

REPORT OF RESULTS

		REPORT OF RESULTS	rage >
LOG NO	SAMPLE DESCRIPTION ,	LIQUID SAMPLES	DATE/ TIME SAMPLED
	TRIP BLANK		09-07-00
PARAMETER		09167-11	
	luoromethane, ug/l	<5.0	
	chloropropane, ug/l	<5.0	
	methylbenzene, ug/l	<5.0	
	methylbenzene, ug/l	<5.0	
	oride, ug/l	<5.0	
o-Xylene,	-	<5.0	
m&p-Xylene	e, ug/l	<10	
Surrogate	- Dibromofluoromethane	108 %	
Surrogate	- Toluene-d8	104 %	
Surrogate	- 4-Bromofluorobenzene	109 %	
Analyst		WD	
Analysis I	Date	09.11.00	
Batch ID		LEW190	
Prep Metho	od	5030	
steb weru	ou .	2020	



STL Pensacota

LOG NO: C0-09167 Received: 08 SEP 00 Reported: 19 SEP 00

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cis-1,2-Dichloroethene, ug/l

Project: KC-BROWN-BRIDGE

Sampled By: Client

Code: 091800919

Page 10

REPORT OF RESULTS

DATE/ SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES TIME SAMPLED 09167-12 Method Blank 09167-13 Lab Control Standard % Recovery PARAMETER 09167-12 09167-13 Volatile Organic Compounds (8260) Benzene, uq/1 <5.0 94 % Bromobenzene, ug/1 <5.0 Bromochloromethane, ug/1 <5.0 <5.0 Bromodichloromethane, ug/l <5.0 Bromoform, ug/l <5.0 Bromomethane (Methyl bromide), ug/l <5.0 ---Carbon tetrachloride, ug/l 98 % <5.0 Chlorobenzene, ug/l Chloroethane, ug/l <5.0 Chloroform, ug/l <5.0 Chloromethane, ug/l <5.0 2-Chlorotoluene, ug/l <5.0 4-Chlorotoluene, ug/l <5.0 Dibromochloromethane, ug/l <5.0 Dibromomethane (Methylene bromide), ug/1 <5.0 1,2-Dibromoethane (EDB), ug/l <5.0 1,2-Dichlorobenzene, ug/l <5.0 1,3-Dichlorobenzene, ug/l <5.0 <5.0 1,4-Dichlorobenzene, ug/l <5.0 ---Dichlorodifluoromethane, ug/l <5.0 1,1-Dichloroethane, ug/l 1,2-Dichloroethane, ug/l <5.0 <5.0 94 % 1,1-Dichloroethene, ug/l

<5.0



STL Pensacola LOG NO: · C0-09167 Received: 08 SEP 00 Reported: 19 SEP 00

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Project: KC-BROWN-BRIDGE

Sampled By: Client

Code: 091800919

REPORT OF RESULTS

Page 11

LOG NO	SAMPLE DESCRIPTION , QC REPORT	FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
	Method Blank		
09167-13	Lab Control Standard % Recovery	•	
PARAMETER		09167-12	09167-13
***** 1 2 1	Dichloroethene, ug/l	<5.0	
	ropropane, ug/l	<5.0	
	ropropane, ug/l ropropane, ug/l	<5.0	
	ropropane, ug/l		
	chloropropene, ug/l	<5.0	
	Dichloropropene, ug/l	<5.0	
Ethylbenze:		<5.0	
	butadiene, ug/l	<5.0	
	enzene (Cumene), ug/l	<5.0	
	ltoluene, ug/l	<5.0	
	chloride (Dichloromethane), ug/l	= :	
	utyl ether (MTBE), ug/l	<5.0	
Naphthalen		<5.0	
n-Butylben		<5.0	
	nzene , ug/l	<5.0	
	enzene, ug/l	<5.0	
Styrene, u	-	<5.0	
t-Butylben	•	<5.0	
	trachloroethane, ug/l	<5.0	
	trachloroethane, ug/l	<5.0	
	oethene, ug/l	<5.0	
Toluene, u		<5.0	102 %
	hloroethane, ug/l	<5.0	
	hloroethane, ug/l	<5.0	
	hlorobenzene, ug/l	<5.0	



STL Pensacota

LOG NO: C0-09167 Received: 08 SEP 00 Reported: 19 SEP 00

HydroVision, Inc. 7094 Peachtree Executive Park Suite 300 Norcross, GA 30071

Project: KC-BROWN-BRIDGE

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REPORT OF RESULTS

DATE/ SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES TIME SAMPLED

Method Blank 09167-12

LOG NO

09167-13 Lab Control Standard & Recovery			
PARAMETER	09167-12	09167-13	
1,2,4-Trichlorobenzene, ug/l Trichloroethene, ug/l Trichlorofluoromethane, ug/l 1,2,3-Trichloropropane, ug/l 1,2,4-Trimethylbenzene, ug/l 1,3,5-Trimethylbenzene, ug/l Vinyl chloride, ug/l o-Xylene, ug/l m&p-Xylene, ug/l Surrogate - Dibromofluoromethane Surrogate - Toluene-d8 Surrogate - 4-Bromofluorobenzene Analyst Analysis Date Batch ID Prep Method	<5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <10 70 % 87 % 92 % WD 09.11.00 LEW190 5030	 97 %	
Dilution Factor	1	1	

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL Project Manager who signed this test report.

Rick Hayes, Project Manager

Final Page Of Report



Sevem Trent Laboratories, Inc. Pensacola, FL 32514 Tel: (850) 474-1001

Fax: (850) 478-2671

Data Qualifiers for Final Report

STL-Pensacola Inorganic/Organic The analyte was detected in the associated method blank (sample itself is flagged even though sample is NO). Bí The analyte was detected in the sample(s) and in the associated method blank analyzed on the day samples were **B2** extruded; however, this analyte was not detected in the blank analyzed with the samples. The analyte was found in the associated blank as well as in the associated sample(s) (qualifier is applied to the sample, notto **B3** the blank). 84 Sample results were corrected due to contaminants in Fractionation Blank 0 Diluted out (surrogate or spike due to sample dilution) E Compound concentration exceeds the upper calibration range of the Instrument. The reported value is < STL-Pensacola RL and > the STL-Pensacola MDL; therefore, the quantitation is estimation (The F STL-PN RL is at or above lowest calibration standard in the initial calibration curve). Sample and/or duplicate result is at or below 5 X (times) the STL Reporting Limit and the absolute difference between the Ģ sample and duplicate result is at or below the STL reporting limit; therefore, the results are "in control", Sample and/or duplicate is below 5 X (times) the STL Reporting Umit and the absolute difference between the results H1 exceeds the STL Reporting Limit; therefore, the results are "out of control" H₂ Sample and duplicate (or MS and MSD) RPD is above control limit. J (description) The analyte was positively identified, the quantitation may be an estimation (For positive results)Temperature limits exceeded (<2°C or ≥ 6°C), non-reportable for NDPES compliance monitoring. J4 **J**6 (For positive results) LCS or Surrogate %R is > upper control limit (UCL), results may be biased high The reported value is > the laboratory MDL and < lowest calibration standard; therefore, the quantitation is an estimation (this J7 qualifier should only be used when the STL-PN RL is below the lowest calibration standard in the initial calibration). Matrix spike and post spike recoveries are outside control limits. See out of Control Events/Corrective Action Form. J8 (For positive results) LCS or Surrogate %R is < lower control limit (LCL), results may be biased low J9 A matrix effect was present ('sample, MS or MSD was analyzed twice to confirm sumogate/spike failure, 'sample and/or М1 MS/MSD chromatogram(s) had interlering peaks, *sample result was > 4 X spike added, *metals serial dilution was performed, or metals post spike is < 40% R) M2 The MS and/or MSD %R or RPD was outside upper or lower control limits; not necessarily due to matrix effect. N/C Not Calculable; Sample spiked is > 4X spike concentration (may also use this flag in place of negative numbers) Ж Sample and duplicate results are "out of control". The sample is nonhomogeneous. Not enough sample provided to prepare and/or analyze a method-required matrix spike (MS) and/or duplicate (MSD) loMS The analytical (post digestion) spike is reported due to the percent recovery being outside limits on the matrix (pre-3 digestion) spike. R (description) The data may be unusable due to deliciencies in the ability to analyze the sample and meet QC criteria R1 (For nondetects) Temperature limits exceeded (<2°C or ≥ 6°C); non-reportable for NDPES compliance monitoring R2 Improper preservation, no preservative present or insufficient amounts of preservative in sample upon receipt, non-reportable for NDPES compliance monitoring **R3** Improper preservation, incorrect preservative present in sample upon receipt, non-reportable for NPDES compliance R4 Holding time exceeded, non-reportable for NDPES compliance monitoring. R5 Collection requirements not met, improper container used for sample R6 LCS or sumogate %R is < LCL and analyte is not detected or sumogate %R is < 10% for detects/nondetects. R7 Internal standard area outside -50% to +100% of calibration verification standard. R8 Initial calibration or any calibration verification exceeds acceptance criteria. R9 Not filtered and preserved at time of collection. **R10** Headspace >1/4" in diameter in volatile vials, non-reportable for NPDES compliance monitoring **R11** Samples were filtered and preserved within 4 hours of collection. R12 Analysis performed outside the 12-hour tune or not within tune criteria. The Method of Standard Additions (MSA) has been performed on this sample. S1 S2 Incorrect sample amount was submitted to the laboratory for analysis S3 (Flashpoint) This method is not designed for solids and the results may not be accepted by any regulator for such purposes. Second-column or detector confirmation exceeded the SW-846 criteria of 40% RPD for this compound. TIC The compound is not within the Initial calibration curve. It is searched for qualitatively or as a Tentatively Identified Compound. U The reported value is ≤ Laboratory MDL (value for result will be the MDL, never below the MDL) W Post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is less than 50% spike

Adjusted reporting limit due to sample composition, not due to overcal (dilution prior to digestion and/or analysis).

Elevated reporting limit due to matrix Interference (dilution prior to digestion and/or analysis)

OCSHAREVFORMSVEAGS

' (Metals & Wet Chem)

@

Revised: 02/30/00

Elevated reporting limit due to Insufficient sample size

The compound has been quantitated against a one point calibration.

SEVERN TRENT LABORATORIES, INC. - PENSACOLA, FLORIDA STATE CERTIFICATIONS

Alabama Department of Environmental Management, Laboratory ID No. 40150 (Drinking Water by Reciprocity with FL)

Arizona Department of Health Services, Lab ID No. AZ0589 (Hazardous Waste & Wastewater)

Arkansas Department of Pollution Control and Ecology, (No Laboratory ID No. assigned by state) (Environmental)

State of California, Department of Health Services, Laboratory ID No. 2338 (Hazardous Waste and Wastewater)

State of Connecticut, Department of Health Services, Connecticut Lab Approval No. PH-0697 (Drinking Water, Hazardous Waste and Wastewater)

Delaware Health & Social Services, Division of Public Health, Laboratory ID No. FL094 (Drinking Water by Reciprocity with FL)

Florida DOH Laboratory ID No. E81010 (Drinking Water, Hazardous Waste and Wastewater)

Florida, Radioactive Materials License No. G0733-1

Foreign Soil Permit, Permit No. S-37599

Kansas Department of Health & Environment, Laboratory ID No. E10253 (Wastewater and Hazardous Waste)

Commonwealth of Kentucky, Natural Resources and Environmental Protection Cabinet, Laboratory ID No. 90043 (Drinking Water)

State of Louisiana, DHH, Office of Public Health Division of Laboratories, Laboratory ID No. LA000017 (Drinking Water)

State of Maryland, DH&MH Laboratory ID No. 233 (Drinking Water by Reciprocity with Florida)

inunonwealth of Massachusetts, DEP, Laboratory ID No. M-FL094 (Hazardous Waste and Wastewater)

State of Michigan, Bureau of E&OccH, Laboratory ID No.9912 (Drinking Water by Reciprocity with Florida)

New Hampshire DES ELAP, Laboratory ID No. 250599A (Wastewater)

State of New Jersey, Department of Environmental Protection & Energy, Laboratory ID No. 49006 (Wastewate and Hazardous Waster)

New York State, Department of Health, Laboratory ID No. 11503 (Wastewater and Solids/Hazardous Waste)

North Carolina Department of Environment & Natural Resources, Laboratory ID No. 314 (Hazardous Waste and Wastewater)

North Dakota DH&Consol Labs, Laboratory ID No. R-108 (Hazardous Waste and Wastewater by Reciprocity with Florida)

State of Oklahoma, Oklahoma Department of Environmental Quality, Laboratory ID No. 9810 (Hazardous Waste and Wastewater)

Commonwealth of Pennsylvania, Department of Environmental Resources, Laboratory ID No. 68-467 (Drinking Water)

South Carolina DH&EC, Laboratory ID No. 96026 (Wastewater by Reciprocity with FL and Solids/Hazardous Waste by Reciprocity with CA)

Tennessee Department of Health & Environment, Laboratory ID No. 02907 (Drinking Water)

Tennessee Division of Underground Storage Tanks Approved Laboratory

Virginia Department of General Services, Laboratory ID No. 00008 (Drinking Water by Reciprocity with FL)

ate of Washington, Department of Ecology, Laboratory ID No. C282 (Hazardous Waste and Wastewater)

..'est Virginia Division of Environmental Protection, Office of Water Resources, Laboratory ID No. 136 (Hazardous Waste and Wastewater by Reciprocity with FL)

American Industrial Hygiene Association (AIHA) Accredited Laboratory, Laboratory ID No. 100704 \text{\text{word\text{\text{centist\condcen.lsi}}} revised 07/13/00

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Severn Trent Laboratories

3355 McLemore Drive • Pensacola, FL 32514

CHAIN OF CUSTODY

LAB ACCESSION # COO9167

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PART 2 - Sample/Proj	ect	Info	rm	atio	n			_								PAR	NAF	ET	ERS	AP	ND I	PRE	SE	RV	ATI	VES	RE	้อบ	ESTED
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00090101

CHAIN OF CUSTODY

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LAB ACCESSION # COO9167

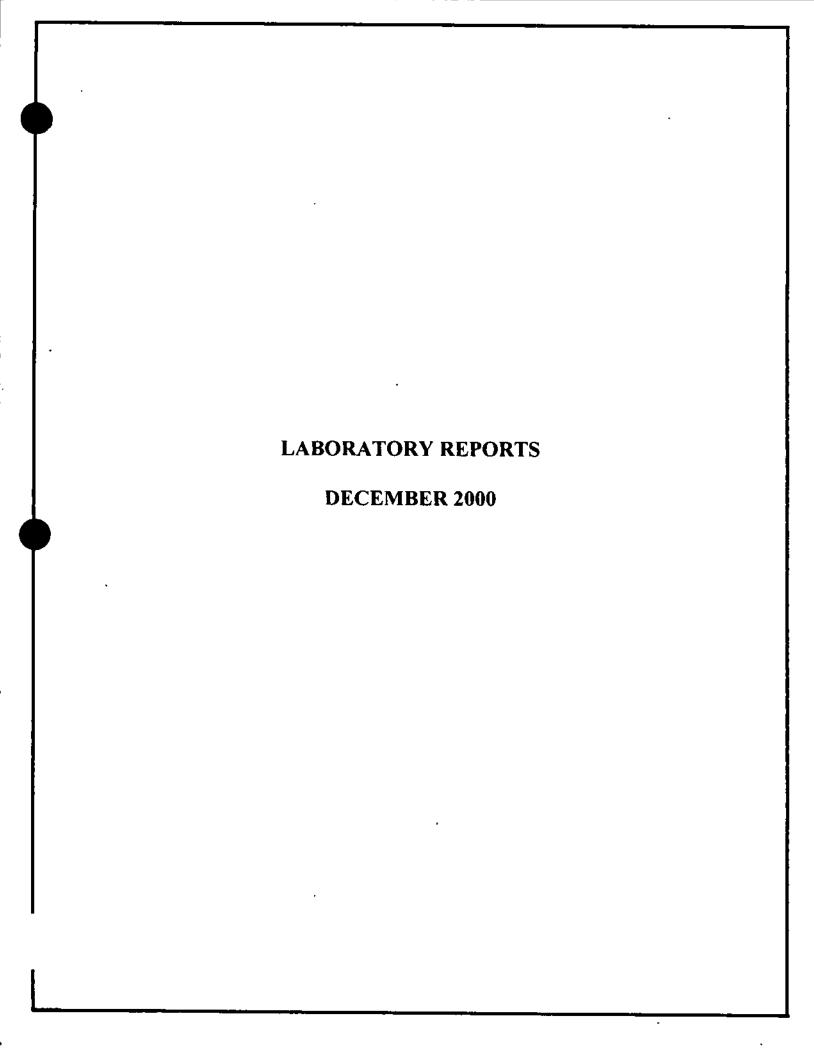
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48 hours - 2x standard (price	:			-					_														_		_			_	
بر days - 1.5x standard pri	ice													-				_		_								_		
TCLP - 1 week rush 1.5x st	anda	ırd p	rice											•	•															
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PINK - CLIENT

Severn Trent Laboratories of Florida PROJECT SAMPLE INSPECTION FORM

ab Order #: (009167	Date Received: 9-8-00									
Was there a Chain of Custody? (Yes) No*	8. Were samples checked for Yes No* N/A preservative? (Check pH of all H ₂ O requiring preservative (STL-PN SOP 917) except VOA vials that require zero									
 Was Chain of Custody properly filled out and relinquished? Were samples received cold? (Per Not N/A) 	9. Is there sufficient volume for analysis requested? 10. Were samples received within Yes No*									
(Criteria: 2° - 6°C: STL-SOP 1055) 4. Were all samples properly (es) No* labeled and identified? 5. Did samples require splitting or Yes* (No)	Holding Time? (REFER TO STL-SOP 1040) 11. Is Headspace visible > ½" in Yes* NO N/A diameter in VOA vials?* If any headspace is evident, comment in out-of-control section.									
compositing*? Req By: PM Client Other* 6. Were samples received in proper (Yes) No* containers for analysis	12. If sent, were matrix spike bottles Yes No* N/A returned?									
requested? 7. Were all sample containers received intact?	13. Was Project Manager notified of Yes No* N/A problems? (initials: PS/F									
Airbill Number(s): <u>J108,565718</u> 8	Shipped By: <u>(</u>									
Cooler Number(s): <u>(いもん)</u>	Shipping Charges: NA									
Cooler Weight(s):	Cooler Temp(s) (°C): 2°C (K 3) (UST THERMOMETER NUMBER(S) FOR VERIFICATION)									
Out of Control Events and Inspection Comments: 2. NO CLIENT INFORMATION LISTED ON COC. 98-00										
· · · · · · · · · · · · · · · · · · ·	(USE BACK OF PSIFFOR ADDITIONAL NOTES AND COMMENTS.)									
Inspected By: Cate: 9.8.0	Inspected By: Date: 9.8.03 Logged By: LLL Date: 18-Syd									
	ntion of this form									

- Note all Out-of-Control and/or questionable events on Comment Section of this form.
- ## If Other, note who requested the splitting or compositing of samples on the Comment Section of this form. All volatile samples requested to be split or composited must be done in the Volatile Lab. Document: "Volatile sample values may be compromised due to sample splitting (compositing)"
- All preservatives for the State of North Carolina, the State of New York, and other requested samples are to be recorded on the sheet provided to record pH results (STL-SOP 938, section 2.2.9).
- * According to EPA, ½" of headspace is allowed in 40 ml vials requiring volatile analysis, however, STL makes it policy to record any headspace as outof-control (STL-SOP 938, section 2.2.12).



Sampling and Measurements of Nine Groundwater Monitoring Wells Four Pumping Wells and Water Sampling and Analysis of Effluent/Influent System at Spinnaker Coatings, Troy, Ohio

For

HYDROVISION, INC. 7094 Peachtree Industrial Blvd. Suite 300, Norcross, Georgia 30371

Report No. 118292-1200-T382

December 22, 2000



BOWSER-MORNER

4518 Taylorsville Road • P.O. Box 51 • Dayton, Ohio 45401 • 937/236-8805

ENVIRONMENTAL REPORT

REPORT TO: HYDROVISION, INC.

REPORT DATE: December 22, 2000

3

7094 Peachtree Industrial Blvd.

Suite 300

REPORT NO.: 118292-1200-T382

Norcross, Georgia 30371

Attention: Mr. Steve McFadden

REPORT ON: Sampling and Measurements of six Groundwater Monitoring Wells, Four

Pumping Wells and Water Sampling and Analysis of Effluent/Influent

System at Spinnaker Coatings, Troy, Ohio

On December 8, 2000 and December 13, 2000, water samples were collected from six groundwater monitoring wells, four pumping wells, and the influent and effluent systems on the Brown-Bridge site in Troy, Ohio. These samples were tested in the field for pH, temperature, and specific conductivity. Water levels in the six monitoring wells were measured. The four pumping wells, PW-2, PW-3, PW-4, and EEIB-2, were sampled from valves in the treatment building.

The following procedures were followed during the monitoring well sampling. First, the water level in each well was measured using a water tape that was decontaminated before being placed in each well. Based on the well depth, the volume of the wells were calculated using the formula on the <u>Groundwater Monitoring Field Data Sheets</u> in **Appendix A**. After at least three well volumes were bailed manually from each well, a water sample was manually collected and preserved according to the U.S. EPA SW-846 guidance for laboratory analysis, and shipped to the Severn Trent Laboratories, Inc. in Pensacola, Florida.

Water samples from each of the groundwater monitoring wells, pumping wells, and the influent and effluent systems were collected and tested in the field for temperature, pH, and conductivity by EPA Methods 150.1 and 120.0. The instruments were calibrated before the sampling began. The results of the field tests for the monitoring wells, pumping wells and production wells are summarized below in Table 1. Field Parameters for the Effluent and Influent samples are summarized in Table 2. Copies of the Field Notes are included in Appendix A.

TABLE 1
RESULTS OF FIELD PARAMETERS
MONITORING WELLS

Monitoring Well No.	Water Level (ft)	Temperature (°C)	pН	Conductivity
PW-1	8.01	10.6	7.18	804
KMW-6	12.23	13.2	7.35	735
KMW-7	- 11.24	10.6	7.32	905
KMW-8	11.08	10.7	7.20	755
KMW-9	11.10	10.8	7.19	767
EEIB-12	11.78	9.8	7.08	967
PW-2**	N/A	12.8	7.63	753
PW-3**	N/A	14.5	7.53	820
PW-4**	N/A	13.3	7.56	760
EEIB-2**	N/A	13.4	7.07	979
KMW-5	11.20	11.8	7.19	857
GZA-1	14.12	12.1	7.11	1081
EEIB-4	14.16	10.1	7.12	696

**Sampled from valves in treatment building. N/A = Not applicable

Influent and effluent samples at the Spinnaker Coatings facility in Troy, Ohio were collected manually and preserved according to the U.S. EPA SW-846 guidance. The effluent sample was tested in the Bowser-Morner laboratory for volatile organic compounds (VOC's) by EPA Method 8260, total suspended solids (TSS) by EPA Method 160.2, total organic carbon (TOC) by EPA Method 415.1, and polynuclear aromatic hydrocarbons (PAH) by EPA Method 8100. The influent sample was tested in the Bowser-Morner laboratory for VOC's and PAH's only. The Chain-of-Custody Forms and the complete Laboratory Reports are included in Appendix B. The field parameters from the Influent and effluent samples are summarized in Table 2. The analytical results are summarized in Table 3.



TABLE 2 RESULTS OF FIELD PARAMETERS SYSTEM EFFLUENT AND INFLUENT

Sample Location	Monitoring Point Type	Temperature (°C)	pĦ	Conductivity
System Influent System Effluent	Spigot	13.5	7.04	721
	4" Pipe	13.5	8.45	703

TABLE 3 ANALYTICAL RESULTS SYSTEM EFFLUENT AND INFLUENT

Sample Location	Analyte Detected*	Result	EPA Method No.	Date Analyzed
System-Effluent	Total Organic Carbon (TOC)	2.9 mg/L .	415.1	12-14-00
System-Effluent .	Total Suspended Solids (TSS)	72.0 mg/L	160.2	12-11-00
System-Effluent	Volatile Organic Compounds (VOC's)	All < MRL**	8260	12-13-00
System-Effluent	Polynuclear Aromatic Hydrocarbons (PAH)	All < MRL	8100	12-19-00
System Influent	Volatile Organic Compounds (VOC's)	Ali < MRL	8260	12-13-00
System Influent	PAH	All < MRL	8100	12-19-00

^{*}Only the analytes detected are summarized here.

**MRL = Method Report Limit
mg/L = parts per million
ug/L = parts per billion



Thank you for selecting Bowser-Morner, Inc. for this project. As always, your business is appreciated and we look forward to working with you again soon. In the meantime, if you have any questions or if we can help you in any way, please let us know.

Sincerely,

BOWSER-MORNER ASSOCIATES, INC.

Alaunders

loseph D. Saunders

Senior Environmental Scientist



JDS/kmw 3-Client



APPENDIX A FIELD DATA SHEETS AND FIELD NOTES



Client: HYDROVISION, INC. Site: Spinnake	er Coatings
Date: 12-13-00	
Monitoring Point Identification: EEIB-2	Monitoring Point Type: Spigot
Location: Treatment System Building Valve #1	
Static Water Level (ft): N/A	Well Depth (ft): N/A
One Well Volume (gal): N/A	Actual Purge Volume (gal): N/A
(depth) - (swl) = head head x conversion factor conversion factor: 2" well diameter = 0.163 gal/ft	= 1 volume 1 vol. x 3 = purge volume 4" well diameter = 0.653 gal/ft
(2) (2) (24 (24 (24 (24 (24 (24 (24 (24 (24 (24	3))=V=26(A=24(3))=K=24(3)=K=24(3)=K=3(C);
Purging Device: N/A	Sampling Device: N/A
Immiscible Layers ?: N/A	Thickness:
Filtered?: N/A	Filter Type:
Weather Conditions:	·
Sample Appearance and Odor: Clear, no odor	
FIELD COMMENTS	
FIELD ANALYSIS	· · · · · · · · · · · · · · · · · · ·
Temperature (* C): 13.4	
Specific Conductance (µmhos/cm³): 979	
pH (SU): 7.07	•
Sampler Name: J. Saunders	Affiliation: BMI

Client: HYDROVISION, INC. Site: Spinnak	er Coatings
Date: 12-13-00	
Monitoring Point Identification: PW-2	Monitoring Point Type: Spigot
Location: Treatment System Building Valve #2	
Static Water Level (ft): N/A	Well Depth (ft): N/A
One Well Volume (gal): N/A	Actual Purge Volume (gal): N/A
(depth) - (swl) = head head x conversion factor conversion factor: 2" well diameter = 0.163 gal/ft	= 1 volume 1 vol. x 3 = purge volume 4" well diameter = 0.653 gal/ft
P44(9230-7)=(0-2342-2-3)=(1-2342-1-(0.16	
Purging Device: N/A	Sampling Device: N/A
Immiscible Layers ?: N/A	Thickness:
Filtered?: N/A	Filter Type:
Weather Conditions:	
Sample Appearance and Odor: Clear, no odor	<u> </u>
FIELD COMMENTS	
	.
FIELD ANALYSIS	•
Temperature (*C): 12.8	
Specific Conductance (µmhos/cm³): 753	•
pH (SU): 7.63	
impler Name: J. Saunders	Affiliation: BMI

Client: <u>HYDROVISION, INC.</u> Site: <u>Spinnake</u>	er Coatings
Date: 12-13-00	
Monitoring Point Identification: PW-3	Monitoring Point Type: Spigot
Location: Treatment System Building Valve #3	
Static Water Level (ft): N/A	Well Depth (ft): N/A
One Well Volume (gal): N/A	Actual Purge Volume (gal): N/A
(depth) - (swl) = head head x conversion factor = conversion factor: 2" well diameter = 0.163 gal/ft	= 1 volume 1 vol. x 3 = purge volume 4" well diameter = 0.653 gal/ft
(0.16 (*) (*) (*) (*) (*) (*) (*) (*) (*) (*)	
Purging Device: N/A	Sampling Device: N/A
Immiscible Layers ?: N/A	Thickness:
Filtered?: N/A	Filter Type:
Weather Conditions:	·
Sample Appearance and Odor: Clear, no odor	
FIELD COMMENTS	
FIELD ANALYSIS	
Temperature (* C): 14.5	
Specific Conductance (µmhos/cm³): 820	
pH (SU): 7.53	
mpler Name: <u>I. Saunders</u>	Affiliation:BMI

Client: HYDROVISION, INC. Site: Spinnaker	Coatings
Date: 12-13-00	•
Monitoring Point Identification: PW-4	Monitoring Point Type: Spigot
Location: Treatment System Building Valve #4	
Static Water Level (ft): N/A	Well Depth (ft): N/A
One Well Volume (gal): N/A	Actual Purge Volume (gal): N/A
(depth) - (swl) = head head x conversion factor = conversion factor: 2" well diameter = 0.163 gal/ft	1 volume 1 vol. x 3 = purge volume 4" well diameter = 0.653 gal/ft
Sec. (1992-1992) = (1992-1992)	
Purging Device: N/A	Sampling Device: N/A
Immiscible Layers ?: N/A	Thickness:
Filtered?: N/A	Filter Type:
Weather Conditions:	
Sample Appearance and Odor: Clear, no odor	· · · · · · · · · · · · · · · · · · ·
FIELD COMMENTS	
<u> </u>	
FIELD ANALYSIS	
Temperature (* C): 13.3	
Specific Conductance (µmhos/cm³): 760	•
pH (SU): 7.56	
ipler Name: J. Saunders	_Affiliation:BMI

Chent: HYDROVISION, INC. Site: Spinnaker	Coatings
Date: 12-13-00	
Monitoring Point Identification: PW-1	Monitoring Point Type: 4" PVC
Location: Manhole NE of Treatment Building	
Static Water Level (ft): 8.01	Well Depth (ft): 20.0
One Well Volume (gal): 7.8	Actual Purge Volume (gal): 25.0
(depth) - (swl) = head head x conversion factor = 1 conversion factor: 2" well diameter = 0.163 gal/ft	volume 1 vol. x 3 = purge volume 4" well diameter = 0.653 gal/ft 0.653) = 7.8
Purging Device: <u>Disposable Bailer</u>	Sampling Device: <u>Disposable Bailer</u>
Immiscible Layers ?: N/A	Thickness:
Filtered?: N/A	Filter Type:
Weather Conditions:	
Sample Appearance and Odor: Cloudy, no odor	
FIELD COMMENTS	. •
some vegetation-like debris	
EVEL D. ANALY MOVO	
FIELD ANALYSIS	
Temperature (°C): 10.6	
Specific Conductance (µmhos/cm³): 804 pH (SU): 7.18	
mpler Name: J. Saunders	_Affiliation:BMI

Client: <u>HYDROVISION, INC.</u> Site: <u>Spinnak</u>	er Coatings
Date: 12-11-00	•
Monitoring Point Identification: KMW-6	Monitoring Point Type: 2" PVC Flush Mount
Location: NW Treatment Bldg, Inside Fence	
Static Water Level (ft): 12.23	Well Depth (ft): 20.0
One Well Volume (gal): 1.3	Actual Purge Volume (gal): 5.0
(depth) - (swl) = head head x conversion factor =	= 1 volume 1 vol. x 3 = purge volume
conversion factor: 2" well diameter = 0.163 gal/ft	4" well diameter = 0.653 gal/ft
(*20.0 ± (*20.0 ± (**) ± (**) ± 7.77 ± (**) ± 7.77 (**)	0.163) 三月日末の六月3(3) 三3.9%(またり)。
Purging Device: Disposable Bailer	Sampling Device: <u>Disposable Bailer</u>
Immiscible Layers ?:_N/A	Thickness:
Filtered?: N/A	Filter Type:
Weather Conditions:	
Sample Appearance and Odor: Cloudy, no odor	
FIELD COMMENTS	•
FIELD ANALYSIS	
Temperature (*C): 13.2	
Specific Conductance (µmhos/cm³): 735	
pH (SU):7.35	
ler Name: J. Saunders	_Affiliation:BMI

Client: HYDROVISION, INC. Site: Spinnake	er Coatings	
Date: 12-13-00		
Monitoring Point Identification: KMW-7	Monitoring Point Type: 2" PVC Flush Mount	
Location: NW Treatment Bldg. Along Fence		
Static Water Level (ft): 11.24	Well Depth (ft): 20.0	
One Well Volume (gal): 1.4	Actual Purge Volume (gal): 5.0	
(depth) - (swl) = head head x conversion factor = conversion factor: 2" well diameter = 0.163 gal/ft	= 1 volume 1 vol. x 3 = purge volume 4" well diameter = 0.653 gal/ft	
(7420.0 len) - (1124 en) = 8.76 (22.2 8.76(0163) 自1445 [24] [3] 二、	:] }'u
Purging Device: <u>Disposable Bailer</u>	Sampling Device: <u>Disposable Bailer</u>	
Immiscible Layers ?:_N/A	Thickness:	
Filtered?: N/A	Filter Type:	
Weather Conditions:	·	
Sample Appearance and Odor: Cloudy, no odor		
FIELD COMMENTS		
FIELD ANALYSIS		
Temperature (°C): 10.6		
Specific Conductance (µmhos/cm³): 905		
pH (SU): 7.32		
npler Name: J. Saunders	Affiliation:BMI	

Cheffit: HYDROVISION, INC. Site: Spinnaker	Coatings
Date: 12-13-00 .	
Monitoring Point Identification: KMW-8	Monitoring Point Type: 2" PVC Flush Mount
Location: NE Treatment Bldg. Outside Fence	
Static Water Level (ft): 11.08	Well Depth (ft): 28.0
One Well Volume (gal): 2.8	Actual Purge Volume (gal): 10.0
(depth) - (swl) = head head x conversion factor = 1 conversion factor: 2" well diameter = 0.163 gal/ft	volume 1 vol. x 3 = purge volume 4" well diarneter = 0.653 gal/ft
(28.005+) F(11.08 2) = 16.92 - 5.50 C	16.92(0163)=2.8 2.8(3)=18.4 3 = 2
Purging Device: <u>Disposable Bailer</u>	Sampling Device: Disposable Bailer
Immiscible Layers ?: N/A	Thickness:
Filtered?: N/A	Filter Type:
Weather Conditions:	
Sample Appearance and Odor: Cloudy, no odor	· · · · · · · · · · · · · · · · · · ·
FIELD COMMENTS	
FIELD ANALYSIS	
Temperature (°C): 10.7	
Specific Conductance (µmhos/cm³): 755	
pH (SU):	
^ pler Name: J. Saunders	Affiliation: BMI

Client: HYDROVISION, INC. Site: Spinnake	er Coatings
Date: 12-13-00	
Monitoring Point Identification: KMW-9	Monitoring Point Type: 2" PVC Flush Mount
Location: Inside Electrical Cage	
Static Water Level (ft): 11.10	Well Depth (ft): 25.0
One Well Volume (gal): 2.3	Actual Purge Volume (gal): 8.0
(depth) - (swl) = head head x conversion factor = conversion factor: 2" well diameter = 0.163 gal/ft	1 volume 1 vol. x 3 = purge volume 4" well diameter = 0.653 gal/ft
@@a=(@25.0±@)=(21.1110±3)=13.90=#1.313.9((0.163)=23.7 (2.35)=6.9, (2.35)
Purging Device: <u>Disposable Bailer</u>	Sampling Device: <u>Disposable Bailer</u>
Immiscible Layers ?: N/A	Thickness:
Filtered?: N/A	Filter Type:
Weather Conditions:	
Sample Appearance and Odor: Cloudy, no odor	
FIELD COMMENTS	•
Water in annulus over the wellcap	
	
FIELD ANALYSIS	
Temperature (°C): 10.8	
Specific Conductance (µmhos/cm³): 767	
р Н (SU) : 7.19	
pler Name; J. Saunders	_Affiliation:BMI

Client: HYDROVISION, INC. Site: Spinnak	er Coatings
Date: 12-13-00	
Monitoring Point Identification: EEIB -12	Monitoring Point Type: 2" PVC Flush Mount
Location: W of Electrical Tower	
Static Water Level (ft): 11.78	Well Depth (ft): 20.0
One Well Volume (gal):_1.05	Actual Purge Volume (gal): 4.0
(depth) - (swl) = head head x conversion factor =	
conversion factor: 2" well diameter = 0.163 gal/ft	4" well diameter = 0.653 gal/ft
(520.0 %): (72.511.78 %) = 8.22 % - (6.8.22()	0.163) =1.3 ≥ 60 ≥ (135(3) = 3.9 ≥ 5 ≥ 5 ≥ 6 ≥ 6 ≥ 6 ≥ 6 ≥ 6 ≥ 6 ≥ 6 ≥ 6
Purging Device: <u>Disposable Bailer</u> Immiscible Layers ?: <u>N/A</u>	Sampling Device: <u>Disposable Bailer</u> Thickness:
Filtered?: N/A	Filter Type:
Weather Conditions:	
Sample Appearance and Odor: Cloudy, no odor	
FIELD COMMENTS	·
FIELD ANALYSIS	•
Temperature (°C): 9.8	
Specific Conductance (µmhos/cm³): 967	
pH (SU): 7.08	
ampler Name: J. Saunders	_Affiliation:BMI

Client: HYDROVISION, INC. Site: Spinn	naker Coatings
Date: 12-13-00	
Monitoring Point Identification: KMW-5	Monitoring Point Type: 2" PVC Flush Mount
Location: Middle of Parking Lot	
Static Water Level (ft): 11,20	Well Depth (ft): 19.0
One Well Volume (gal): 1.3	Actual Purge Volume (gal): 5.0
(119.05).) = (swl) = head head x conversion factor conversion factor: 2" well diameter = 0.163 gal/ft	or = 1 volume 1 vol. x 3 = purge volume 4" well diameter = 0.653 gal/ft $(0.163) = 1.3$ $(0.163) = 1.3$
Purging Device: <u>Disposable Bailer</u> Immiscible Layers ?: <u>N/A</u>	Sampling Device: <u>Disposable Bailer</u> Thickness:
Filtered?: N/A	Filter Type:
Weather Conditions:	
Sample Appearance and Odor: Cloudy, no odor	
FIELD COMMENTS	
FIELD ANALYSIS	
Temperature (* C): 11.8	
Specific Conductance (µmhos/cm³): 857	•
pH (SU):	
ampler Name: J. Saunders	Affiliation: DMI

Chem: HYDROVISION, INC. Site: Spinnake	T Coatings
Date: 12-13-00	
Monitoring Point Identification: <u>GZA-1</u>	Monitoring Point Type: 2" PVC Flush Mount
Location: Near SE Corner of Parking Lot	
Static Water Level (ft): 14.12	Well Depth (ft): 18.0
One Well Volume (gal): 0.6	Actual Purge Volume (gal): 3.0
(depth) - (swl) = head head x conversion factor = conversion factor: 2" well diameter = 0.163 gal/ft	1 volume 1 vol. x 3 = purge volume 4" well diameter = 0.653 gal/ft
(318.02) (32914.12 (3) 3.9)	163')=0.67:47' 2/0.6(3)=118
Purging Device: <u>Disposable Bailer</u> Immiscible Layers ?: <u>N/A</u>	Sampling Device: <u>Disposable Bailer</u> Thickness:
Filtered?: N/A	Filter Type:
Weather Conditions:	•
Sample Appearance and Odor: Cloudy, no odor	
FIELD COMMENTS	
·	<u> </u>
FIELD ANALYSIS	
Temperature (°C): 12.1	
Specific Conductance (µmhos/cm³): 1081	
pH (SU): 7.11	
Sampler Name: J. Saunders	Affiliation: BMI

CHERT: HYDROVISION, INC. Site: Spinnake	r Coatings
Date: 12-13-00	
Monitoring Point Identification: <u>EEIB-4</u>	Monitoring Point Type: 2" PVC Flush Mount
Location: Near SW Corner of Parking Lot	•
Static Water Level (ft): 14.16	Well Depth (ft): 21.0
One Well Volume (gal): 1.16	Actual Purge Volume (gal): 5.0
(depth) - (swl) = head head x conversion factor = conversion factor: 2" well diameter = 0.163 gal/ft	1 volume 1 vol. x 3 = purge volume 4" well diameter = 0.653 gal/ft
	163) 到别是这些别(3)=3335500000000000000000000000000000000
Purging Device: <u>Disposable Bailer</u> Immiscible Layers ?: <u>N/A</u>	Sampling Device: <u>Disposable Bailer</u> Thickness:
Filtered?: N/A	Filter Type:
Weather Conditions:	
Sample Appearance and Odor: Cloudy, no odor	
FIELD COMMENTS	
FIELD ANALYSIS	
Temperature (°C): <u>10,1</u>	
Specific Conductance (µmhos/cm³): 696	
pH (SU):7.12	
Sampler Name: J. Saunders	_Affiliation:BMI

Client: HYDROVISION, INC. Site: Spinns	aker Coatings
Date: 12-13-00	
Monitoring Point Identification: System Influent	Monitoring Point Type: Spigot
Location: Treatment System Building	
Static Water Level (ft): N/A	Well Depth (ft): N/A
One Well Volume (gal): N/A	Actual Purge Volume (gal): N/A
(depth) - (swl) = head head x conversion factor conversion factor: 2" well diameter = 0.163 gal/ft	r = 1 volume 1 vol. x 3 = purge volume 4" well diameter = 0.653 gal/ft
Purging Device: N/A Sam Immiscible Layers ?: N/A	npling Device: N/A Thickness:
Filtered?: N/A	Filter Type:
Weather Conditions:	
Sample Appearance and Odor. Clear, no odor	
FIELD COMMENTS	
FIELD ANALYSIS	
Temperature (* C): 13.5	
Specific Conductance (µmhos/cm³): 721	•
pH (SU): 7.04	
Sampler Name:	Affiliation: BMI

GROUNDWATER MONITORING FIELD DATA SHEET

Chefic HYDROVISION, INC. Site: Spinnake	er Coatings
Date: 12-13-00	
Monitoring Point Identification: System Effluent	Monitoring Point Type: 4" dia. Pipe
Location: Treatment System Building	
Static Water Level (ft): N/A	Well Depth (ft): N/A
One Well Volume (gal): N/A	Actual Purge Volume (gal): N/A
(depth) - (swl) = head head x conversion factor = conversion factor: 2" well diameter = 0.163 gal/ft	= 1 volume 1 vol. x 3 = purge volume 4" well diameter = 0.653 gal/ft
Purging Device: N/A Samp Immiscible Layers ?: N/A	ling Device: N/A Thickness:
Filtered?: N/A	Filter Type:
Weather Conditions:	
Sample Appearance and Odor: Clear, no odor	
FIELD COMMENTS	•
FIELD ANALYSIS	
Temperature (* C): <u>13.5</u>	
Specific Conductance (µmhos/cm³): 703	
рН (SU): <u>8.45</u>	
Sampler Name: J. Saunders	Affiliation:BMI

APPENDIX B ANALYTICAL RESULTS AND CHAIN-OF-CUSTODY FORMS





Shipping: 4518 Taylorsville Rd. Dayton, OH 45424 Mailing: P.O.Box 51 Dayton, OH 45401-0051 937-236-8805

937-237-9947 FAX

LABORATORY REPORT

TO: JOSEPH D. SAUNDERS (@ BMI)

HYDROVISION, INC.

7094 PEACHTREE INDUSTRIAL BLVD

SUITE 300

NORCROSS, GA 30371

Report Date: 12/21/00

Job Number : 118292 Group No. : 33558

Sample No. : 011713

Auth/P.O.# :

Sample Identification: BFFLUENT

Date Sampled: 12/07/00

Date Received: 12/08/00

Analysis Do	escription	Result	Units	MRL*		Met	hođ .	Date/	Malyst
Total Organic (Carbon ded	2.9 72.000	mg/L	1.0	EPA	415 160	.1	12/14 12/11	00 drb
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Submitted by,

* MRL = Mathod Report Limit

Thomas M. Ryan, Sanior Chemist Analytical Services Division

def2/7968/

Shipping: 4518 Taylorsville Rd. Dayton, OH 45424 Mailing: P.O.Box 51 Dayton, OH 45401-0051

937-236-8805 937-237-9947 FAX

LABORATORY REPORT

TO: JOSEPH D. SAUNDERS (@ BMI)

HYDROVISION, INC.

erange in Talah di

7094 PEACHTREE INDUSTRIAL BLVD

SUITE 300

NORCROSS, GA 30371

Report Date: 12/21/00

Job Number : 118292 Group No. : 33558

Sample No. : 011712

Auth/P.O.# :

Sample 'Identification: INFLUENT

Date Sampled: 12/07/00

Date Received: 12/08/00

Analysis Description	Result	Units	MRL*	Method	Date/Analyst
Acenaphthene Acenaphthylene	<mrl< th=""><th>mg/L</th><th>0.0050</th><th>BPA 8100</th><th>12/19/00 drb</th></mrl<>	mg/L	0.0050	BPA 8100	12/19/00 drb
Acenaphenytene			~~U.UU3U.	PPN BIOC	
Anthracene Benzo(a) Anthracene	-MRL	, mg/ u	0.0050.	PDS 101 AA. 45-55	, 12/13/00 drb
Benzo(a) Anthracene	ALL SAN SPIRES		······································	DER-GIVU	12/15/00drb
Benzo (a) Pyrene Benzo (b) Pluoranthene	KIL	., шg/ ь.,	0.0050	BPA 6100	12/19/00 drb
Benzo(k) Pluoranthene Benzo(g,h,i) Perylene	<mrl< td=""><td>mg/_L</td><td>0.0050</td><td>RAW 8100</td><td>12/19/00 drb</td></mrl<>	mg/_L	0.0050	RAW 8100	12/19/00 drb
Chrysene Dibenzo (a, h) Anthracene	<mrl< td=""><td>mg/_L</td><td>U.UO5U</td><td>KPA 8100</td><td>12/19/00_drb</td></mrl<>	mg /_L	U.UO5U	KPA 8100	12/19/00_drb
Fluoranthene Fluorene man Principal Control of the Fluorene man Princi	<mrl< td=""><td>mg/L</td><td>0.0050</td><td>KPA 8100</td><td>12/19/00 drb</td></mrl<>	mg/L	0.0050	KPA 8100	12/19/00 drb
Indeno(1,2,3-cd)Pyrene	<mrl< td=""><td>_mg/L</td><td>0.0050</td><td>BPA_8100</td><td>12/19/00_drb</td></mrl<>	_mg/L	0.0050	BPA_8100	12/19/00_drb
Naphthalene					
Phenanthrene Pyrene:	MRL MRL	mg/L	0.050	EPA 8100	12/19/00 drb
Pyrene() 1971. Total Control	. 45% < MRL	.ing/L	:0.0050	BPA 8100	2.12/19/00.drb
	Salaran Salaran Masasa Salaran Salaran Masasa Salaran Salaran Salaran Masasa				PARACLA
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	Samuel Samuel	Named on which which	ELA RA		
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Submitted by,

* MRL = Method Report Limit

Thomas M. Ryan, Senior Chemist Analytical Services Division

Shipping: 4518 Taylorsville Rd. Dayton, OH 45424 Mailing: P.O.Box 51 Dayton, OH 45401-0051 937-236-8805 937-237-9947 FAX

LABORATORY REPORT

TO: JOSEPH D. SAUNDERS (@ BMI)

HYDROVISION, INC.

7094 PEACHTREE INDUSTRIAL BLVD

SUITE 300

NORCROSS, GA 30371

Report Date: 12/21/00

Job Number : 118292 Group No. : 33558

Sample No. : 011713

Auth/P.O.# :

Sample Identification: EFFLUENT

Date Sampled: 12/07/00

Date Received: 12/08/00

Analysis Description	Result	Units	MRL*	Method	Date/Analyst
Acenaphthene Acenaphthylene	<mrl< th=""><th>mg/L mg/L</th><th>0.0050 B</th><th>PA 8100</th><th>12/19/00 drb</th></mrl<>	mg/L mg/L	0.0050 B	PA 8100	12/19/00 drb
Anthracene Benzo (a) Anthracene					
Benzo (a) Pyrene Benzo (b) Fluoranthene	<mrl< td=""><td>mg/L</td><td>0.0050 B</td><td>PA 8100</td><td>12/19/00 drb</td></mrl<>	mg/L	0.0050 B	PA 8100	12/19/00 drb
Benzo (k) Fluoranthene Benzo (g,h,i) Perylene	<mrl< td=""><td>mg/L</td><td>0.0050_B</td><td>PA_8100</td><td>12/19/00 drb</td></mrl<>	mg/L	0.0050_B	PA_8100	12/19/00 drb
Chrysene Dibenzo (a, h) Anthracene	<mrl< td=""><td>mg/L</td><td>0.0050 R</td><td>PA 8100 PA 8100</td><td>12/19/00 drb</td></mrl<>	mg/L	0.0050 R	PA 8100 PA 8100	12/19/00 drb
Fluorene Fluorene Indeno(1,2,3-cd)Pyrene					
Naphthalene		mg/L	0.0050.B	PA 8100 😂	12/19/00 drb 12/19/00 drb 12/19/00 drb
AND THE STREET STREET,			iliki alaan karii Karii alaan		W. 250 (200) 1 1 1 1 1 1 1 1 1 1
BANG WILLIAM			TO SERVE		
BONAL BUSINESS ATTENDED					
ON THE PROPERTY OF THE PROPERT					

Submitted by,

* MRL - Mathod Report Cimit

Thomas M. Ryan, Senior Chemist Analytical Services Division

Shipping: 4518 Taylorsville Rd. Dayton, OH 45424 Mailing: P.O.Box 51 Dayton, OH 45401-0051

937-236-8805 937-237-9947 FAX

LABORATORY REPORT

TO: JOSEPH D. SAUNDERS (@ BMI)

HYDROVISION, INC.

7094 PEACHTREE INDUSTRIAL BLVD

SUITE 300

NORCROSS, GA 30371

Report Date: 12/21/00

Job Number : 118292 Group No. : 33558

Sample No. : 011712

Auth/P.O.# :

Sample Identification: INFLUENT

Date Sampled: 12/07/00.

Date Received: 12/08/00

Analysis Description	Result	Units	MRL*	Method	Date/Analyst
Acetone	<mrl< td=""><td>mg/L</td><td>.0.020,B</td><td>PA_8260B</td><td>12/13/00 drb</td></mrl<>	mg/L	.0.020,B	PA_8260B	12/13/00 drb
Acrolein		äug/L :∴	100.0B	PA 8260B	. 12/13/00 drb
Acrylonitrile		_ug/L	100.0 B	PA,8260B	12/13/00 dzb
Acrylonitrile Benzene	<mrl< td=""><td>ing/Lillia</td><td>010050BI</td><td>PA.8260B</td><td>12/13/00≲drb</td></mrl<>	ing/Lillia	010050BI	PA.8260B	12/13/00≲drb
Bromodichloromethane	<mrl< td=""><td>_mg/L</td><td>0.0050. 🕸</td><td>PA 8260B</td><td>12/13/00_drb</td></mrl<>	_mg/L	0.0050. 🕸	PA 8260B	12/13/00_drb
Bromodichloromethane Bromoform	<mrl< td=""><td>.mg/L</td><td>a010050B</td><td>PA 8260B</td><td>12/13/00 drb</td></mrl<>	.mg/L	a010050B	PA 8260B	12/13/00 drb
Bromomethane	<mrl< td=""><td>_mg/L</td><td>,0.0050 E</td><td>PA 8260B</td><td>12/13/00 drb</td></mrl<>	_mg/L	,0.0050 E	PA 8260B	12/13/00 drb
Bromomethane Carbon disulfide	` <mrl< td=""><td>äng/L</td><td>30.010.5.B</td><td>PA8260B:::::</td><td>:: 12/13/00 drb</td></mrl<>	äng/L	30.010.5.B	PA8260B:::::	:: 12/13/00 drb
Carbon tetrachloride	<mrl< td=""><td>mg/L</td><td>0.0050 E</td><td>PA.8260B</td><td>_ 12/13/00_drb</td></mrl<>	mg/L	0.0050 E	PA.8260B	_ 12/13/00_drb
Chlorobenzene	<u><mrl< u=""></mrl<></u>	ng/L	O.OO50B	PA 8260B	12/13/00 drb
Chloroethane	<mrl< td=""><td>_mg/L</td><td>0.0050 B</td><td>PA 8260B</td><td>12/13/00 drb</td></mrl<>	_mg/L	0.0050 B	PA 8260B	12/13/00 drb
2-Chloroethylvinyl ether	`. <mrl`< td=""><td>mg/L</td><td>`0.010`‱B</td><td>PA 8260B</td><td>12/13/00drb</td></mrl`<>	mg/L	`0.010`‱B	PA 8260B	12/13/00drb
Chloroform	_ <mrl< td=""><td>mg/L</td><td>0.0050 E</td><td>PA 8260B</td><td>12/13/00 drb</td></mrl<>	mg/L	0.0050 E	PA 8260B	12/13/00 drb
Chloroform Chloromethane	<mrt></mrt>	mg/L	.0.0050 E	PA8260B	12/13/00 drb
Chlorodibromomethane		ug/L	.5.0.	PA 8260B	12/13/00 drb
Chlorodibromomethane Dibromomethane	<mrt.< td=""><td>mg/L</td><td>0.0050 B</td><td>PA8260B</td><td>12/13/00 drb</td></mrt.<>	mg/L	0.0050 B	PA8260B	12/13/00 drb
1,4-Dichlorobenzene	_ <mrl< td=""><td>mg/L</td><td>0.0050 E</td><td>PA 8260B</td><td>12/13/00_drb</td></mrl<>	mg/L	0.0050 E	PA 8260B	12/13/00_drb
cis-1,3 Dichloropropene	i <mrl< td=""><td>mg/L</td><td>0.0050 B</td><td>PA.8260B</td><td>12/13/00 drb</td></mrl<>	mg/L	0.0050 B	PA.8260B	12/13/00 drb
trans-1,3- Dichloropropene	<mrl< td=""><td>mg/L</td><td>0.0050 B</td><td>PA_8260B,</td><td>12/13/00 drb</td></mrl<>	mg/L	0.0050 B	PA_8260B,	12/13/00 drb
Dichlorodifluoromethane	<mrl< td=""><td>mg/L</td><td>a. 0.0050 .B</td><td>PA 8260B</td><td>12/13/00drb</td></mrl<>	mg/L	a. 0.0050 .B	PA 8260B	12/13/00drb
1,1-Dichloroethane	_ <mrl< td=""><td>_mg/L</td><td>0.0050_E</td><td>PA_8260B</td><td>12/13/00 drb</td></mrl<>	_mg/L	0.0050_E	PA_8260B	12/13/00 drb
1,2-Dichloroethane	<mrl< td=""><td>mg/L</td><td>20.20050#B</td><td>PA 8260B</td><td>12/13/00 drb</td></mrl<>	mg/L	20.20050#B	PA 8260B	12/13/00 drb
1,1-Dichloroethene	<mrl< td=""><td>mg/L</td><td>0.0050 E</td><td>PA 8260B</td><td>12/13/00 drb</td></mrl<>	mg/L	0.0050 E	PA 8260B	12/13/00 drb
trans-1,2-Dichloroethene	ે <mrl< td=""><td>mq/L</td><td>0.0050 B</td><td>PA 8260B</td><td>12/13/00 drb</td></mrl<>	mq/L	0.0050 B	PA 8260B	12/13/00 drb
1,2-Dichloropropane	<mrl< td=""><td>"mg/L</td><td>,0.0050 B</td><td>PA 8260B</td><td>12/13/00 drb</td></mrl<>	"mg/L	,0.0050 B	PA 8260B	12/13/00 drb
1,2-Dichloropropane Ethylbenzene	` <mrl< td=""><td>mg/L</td><td>`0.0050 B</td><td>PA:8260B</td><td>"12/13/00 drb</td></mrl<>	mg/L	`0.0050 B	PA:8260B	"12/13/00 drb
2-Hexanone (MBK)	<mrl< td=""><td>mg/L</td><td>0.020 E</td><td>PA 8260B</td><td>12/13/00 drb</td></mrl<>	mg/L	0.020 E	PA 8260B	12/13/00 drb
2-Hexanone (MBK)	<mr.< td=""><td>/mg/L</td><td>0.020 B</td><td>PA 8260B</td><td>3 12/13/00 drb</td></mr.<>	/mg/L	0.020 B	PA 8260B	3 12/13/00 drb
4-Methly-2-pentanone (MIBK)	<mrl< td=""><td>mg/L</td><td>0.020E</td><td>PA.826OB.,,</td><td>12/13/00 drb</td></mrl<>	mg/L	0.020E	PA.826OB.,,	12/13/00 drb
Methylene Chloride	<mrl< td=""><td>mg/L</td><td>. 0.0050 B</td><td>PA 8260B</td><td>12/13/00 drb</td></mrl<>	mg/L	. 0.0050 B	PA 8260B	12/13/00 drb

Submitted by,

* MRL - Method Report Limit

Thomas M. Ryan, Senior Chemist Analytical Services Division

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937-236-8805 937-237-9947 FAX

LABORATORY REPORT

TO: JOSEPH D. SAUNDERS (@ BMI)

HYDROVISION, INC.

7094 PEACHTREE INDUSTRIAL BLVD

SUITE 300

NORCROSS, GA 30371

Report Date: 12/21/00

Job Number : 118292 Group No. : 33558

Sample No. : 011712

Auth/P.O.# :

Sample Identification: INFLUENT

Date Sampled: 12/07/00

Date Received: 12/08/00

Analysis Description	Result	Units	MRL*	Method	Date/Analyst
Styrene 1,1,2,2-Tetrachloroethane	<mrl< th=""><th>mg/L</th><th>0.0050 E</th><th>PA_8260B</th><th>12/13/00_drb</th></mrl<>	mg/L	0.0050 E	PA_8260B	12/13/00_drb
1,1;2,2-Tetrachloroethane	<mrl< td=""><td>ing/L</td><td>0.0050.18</td><td>PA38260B</td><td>12/13/00 đib</td></mrl<>	ing/L	0.0050.18	PA38260B	12/13/00 đ i b
Tetrachloroethene Toluene	<mrl< td=""><td>mg/L</td><td>0.0050_E</td><td>PA 8260B</td><td>12/13/00 drb</td></mrl<>	mg/L	0.0050_E	PA 8260B	12/13/00 drb
1,1,1-Trichloroethane	<mrl< td=""><td></td><td></td><td>PA-8260B Pa R260B</td><td>12/13/00/drb</td></mrl<>			PA-8260B Pa R260B	12/13/00/drb
1,1,1-Trichloroethane	<mrl< td=""><td>mg/L</td><td>0.0050.B</td><td>PA 8260B</td><td>12/13/00 drb</td></mrl<>	mg/L	0.0050.B	PA 8260B	12/13/00 drb
Trichloroethene Trichlorofluoromethane	_ <mrl< td=""><td>_mg/L</td><td>O.0050_E</td><td>PA 8260B</td><td>12/13/00 drb</td></mrl<>	_mg/L	O.0050_E	PA 8260B	12/13/00 drb
Trichlorofluoromethane	<mrl< td=""><td>mg/L</td><td>0:0050.E</td><td>PA 8260B</td><td>12/13/00 drb</td></mrl<>	mg/L	0:0050.E	PA 8260B	12/13/00 drb
1,2,3-Trichloropropane Vinyl Acetate	<mrl< td=""><td>_mg/L</td><td>0.0050 B</td><td>PA 8260B</td><td>12/13/00_drb</td></mrl<>	_mg/L	0.0050 B	PA 8260B	12/13/00_drb
Vinyl Chlorido	<mrl< td=""><td>mg/.L</td><td>0.010B</td><td>PA: 8260B</td><td>12/13/00.drb</td></mrl<>	mg/.L	0.010B	PA: 8260B	12/13/00.drb
Vinyl Chloride Xylenes (total)	<mri< td=""><td>, mg /t: >:</td><td>O</td><td>PA 8260B</td><td>12/13/00 drb</td></mri<>	, mg /t : >:	O	PA 8260B	12/13/00 drb
cis - 1,2 Dichloroethene	<mrl< th=""><th>-mg/L</th><th>0.005 E</th><th>PA 8260B</th><th>12/13/00 drb</th></mrl<>	-mg/L	0.005 E	PA 8260B	12/13/00 drb
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		organization and security		A substitution of the	
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		and the second s			
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Submitted by,

* MRL = Method Report Limit

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LABORATORY REPORT

TO: JOSEPH D. SAUNDERS (@ BMI)

HYDROVISION, INC.

7094 PEACHTREE INDUSTRIAL BLVD

SUITE 300

NORCROSS, GA 30371

Report Date: 12/21/00

Job Number : 118292 Group No. : 33558

Sample No. : 011713

Auth/P.O.# :

Sample Identification EFFLUENT

Date Sampled: 12/07/00

Date Received: 12/08/00

Analysis Description	Result	Units	MRL*	Method ———	Date/Analyst
Acetone	<mrl< th=""><th>_mg/L</th><th>0.020i</th><th>BPA 8260B</th><th>12/13/00_drb</th></mrl<>	_mg/L	0.020i	BPA 8260B	12/13/00_drb
Acetone Acrolein		ug/L	100.0:1	BPA:8260B	12/13/00 drb
Acrylonitrile Benzene	<mrl< td=""><td>.mg/L</td><td>0.025</td><td>BPA::8260B</td><td>12/13/00 drb</td></mrl<>	.mg/L	0.025	BPA::8260B	12/13/00 drb
Bromodichloromethane	<mrl< td=""><td>mg/L</td><td>0.0050_1</td><td>ВРА 8260В</td><td>12/13/00 drb</td></mrl<>	mg/L	0.0050_1	ВРА 8260В	12/13/00 drb
Bromodichloromethane Bromoform	<mrl< td=""><td>mg/L</td><td>0.0050</td><td>BPA-8260B</td><td>12/13/00 drb</td></mrl<>	mg/L	0.0050	BPA-8260B	12/13/00 drb
Bromomethane Carbon disulfide	<mrl< td=""><td>ng/L</td><td>ວ.0.010 ີ 🕄</td><td>BPA: 8260B &</td><td>12/13/00 drb</td></mrl<>	ng/L	ວ.0.010 ີ 🕄	BPA: 8260B &	12/13/00 drb
Carbon tetrachloride	_ <mrl< td=""><td>mg/L</td><td>0.0050</td><td>BPA 8260B</td><td>12/13/00 drb</td></mrl<>	mg/L	0.0050	BPA 8260B	12/13/00 drb
Chloroethane	<mrl< td=""><td>mg/L</td><td>0.0050</td><td>BPA 8260B</td><td>12/13/00 drb</td></mrl<>	mg/L	0.0050	BPA 8260B	12/13/00 drb
2-Chloroethylvinyl ether and a	<mrl< td=""><td>mg/L</td><td>~0.010 ·</td><td>BPA 8260B</td><td>12/13/00 drb</td></mrl<>	mg/L	~0.010 ·	BPA 8260B	12/13/00 drb
Chloroform Chloromethane	<mrl< td=""><td>ng/L 🎉</td><td>90.0050</td><td>BPA 8260B</td><td>12/13/00 drb</td></mrl<>	ng/L 🎉	90.0050	BPA 8260B	12/13/00 drb
Chlorodibromomethane Dibromomethane	` <mrl td="" ∴<=""><td>mg/L</td><td>່0.0050∴</td><td>BPA 8260B</td><td>12/13/00 drb</td></mrl>	mg/L	່0.0050∴	BPA 8260B	12/13/00 drb
1,4-Dichlorobenzene					
cis-1,3 Dichloropropene	<mrl< td=""><td>ing/L</td><td>0.0050</td><td>BPA 8260B</td><td>412/13/00 drb</td></mrl<>	ing/L	0.0050	BPA 8260B	412/13/00 drb
trans-1,3- Dichloropropene	<mrl< td=""><td>_mg/L</td><td>0.0050,</td><td>BPA 8260B</td><td>12/13/00 drb</td></mrl<>	_mg/L	0.0050,	BPA 8260B	12/13/00 drb
Dichlorodifluoromethane	<mrl< td=""><td>.mg/L</td><td>0.0050</td><td>BPA 8260B</td><td>12/13/00 drb</td></mrl<>	.mg/L	0.0050	BPA 8260B	12/13/00 drb
1,1-Dichloroethane	<mrl< td=""><td>mg/L</td><td>0.0050</td><td>BPA 8260B</td><td>12/13/00 drb</td></mrl<>	mg/L	0.0050	BPA 8260B	12/13/00 drb
1,2-Dichloroethane	< MRL ::::	mg/Li		BPA: 8260B:	12/13/00 drb
1,1-Dichloroethene	<mrl,< td=""><td>.mg/L</td><td>0.0050/1</td><td>BPA_8260B</td><td>_12/13/00 drb</td></mrl,<>	.mg/L	0.0050/1	BPA_8260B	_12/13/00 drb
trans-1,2-Dichloroethene	<mrl< td=""><td>mg/L</td><td>40.0050 T</td><td>BPA 8260B</td><td>12/13/00 drb</td></mrl<>	mg/L	40.0050 T	BPA 8260B	12/13/00 drb
1,2-Dichloropropane Ethylbenzene	<mrl< td=""><td>"mg/Ļ"</td><td>0.0050</td><td>BPA 8260B</td><td>12/13/00 drb</td></mrl<>	"mg/Ļ"	0.0050	BPA 8260B	12/13/00 drb
Sthylbenzene	<mrl< td=""><td>.mg/L</td><td>0.0050</td><td>BPA 8260B</td><td>-12/13/00.drb</td></mrl<>	.mg/L	0.0050	BPA 8260B	-12/13/00.drb
2-Hexanone (MBK) 2-Butanone (MEK)	<mrl< td=""><td>, mg/L</td><td>0.020</td><td>BPA 8260B</td><td>12/13/00 drb</td></mrl<>	, mg/L	0.020	BPA 8260B	12/13/00 drb
2-Butanone (MEK)	○<mrl< b=""></mrl<>	mg/L	0.020	BPA 8260B	12/13/00 drb
4-Methly-2-pentanone (MIBK)	<mrl< td=""><td>_mg/L</td><td>0.020</td><td>BPA 8260B</td><td>., 12/13/00 drb</td></mrl<>	_mg/L	0.020	BPA 8260B	., 12/13/00 drb
Methylene Chloride		mg/L	0.0050``	BPA 8260B	12/13/00 drb

Submitted by,

· MRL = Method Report Limit

Thomas M. Ryan, Senior Chemist Analytical Services Division



Shipping: 4518 Taylorsville Rd. Dayton, OH 45424 Mailing: P.O.Box 51 Dayton, OH 45401-0051

937-236-8805 937-237-9947 FAX

LABORATORY REPORT

TO: JOSEPH D. SAUNDERS (@ BMI)

HYDROVISION, INC.

7094 PEACHTREE INDUSTRIAL BLVD

SUITE 300

NORCROSS, GA 30371

Report Date: 12/21/00

Job Number : 118292

Group No. : 33558

Sample No. : 011713

Auth/P.O.# :

Sample Identification: EFFLUENT

Date Sampled: 12/07/00

Date Received: 12/08/00

Analysis Description	Result	Units	MRL*	Method	. Date/Analyst	
Styrene	<mrl< th=""><th>_mg/L</th><th>0.0050_</th><th>EPA_8260B</th><th>12/13/00_drb</th></mrl<>	_mg/L	0.0050_	EPA_8260B	12/13/00_drb	
Styrene 1,1,2,2-Tetrachloroethane	<nrl< td=""><td>mg/L</td><td>0.0050</td><td>BPA 8260B</td><td>12/13/00 drb</td></nrl<>	mg/L	0.0050	BPA 8260B	12/13/00 drb	
Tetrachloroethene	<mrl< td=""><td>mg/L</td><td>0.0050_</td><td>EPA 8260B</td><td>12/13/00 drb</td></mrl<>	mg/L	0.0050_	EPA 8260B	12/13/00 drb	
Tetrachloroethene Toluene	<mrl< td=""><td>mg/L</td><td>0.0050</td><td>BPA 8260B</td><td>12/13/00 drb</td></mrl<>	mg/L	0.0050	BPA 8260B	12/13/00 drb	
1,1,1-Trichloroethane						
1,1,2-Trichloroethane	<mrl< td=""><td>wmg/L</td><td>.0.0050</td><td>BPA 8260B</td><td>. 12/13/00 drb</td></mrl<>	wmg/L	.0.0050	BPA 8260B	. 12/13/00 drb	
Trichloroethene						
Trichlorofluoromethane	<mrl< td=""><td>mg/L</td><td>0.0050</td><td>BPA 8260B</td><td>12/13/00 drb</td></mrl<>	mg/L	0.0050	BPA 8260B	12/13/00 drb	
1,2,3-Trichloropropane		_				
Vinyl Acetate	<mrl< td=""><td>mg/L</td><td>0.010</td><td>EPA 8260B</td><td>12/13/00 drb</td></mrl<>	mg/L	0.010	EPA 8260B	12/13/00 drb	
Vinyl Chloride Xylenes (total)	<mrl< td=""><td>mg/L</td><td>0.010</td><td>BPA 8260B</td><td>12/13/00 drb</td></mrl<>	mg/L	0.010	BPA 8260B	12/13/00 drb	
cis - 1,2 Dichloroethene	<mrl< td=""><td>,mg/L</td><td>0.005</td><td>EPA 8260B</td><td>12/13/00 drb</td></mrl<>	,mg/L	0.005	EPA 8260B	12/13/00 drb	

ZESKARA OT SAM ZEREMENDEN KANTINISKAR PESANTISKAR PER BE

HAR BOOK OF THE STATE OF THE ST

Submitted by,

* MRL - Method Report Limit

Thomas M. Ryan, Serior Chemist Analytical Services Division



CORPORATE OFFICE

Shipping Address: 4518 Taylorsviile Road Daylon, OH 45424 Phone (937) 236-8805 Fax (937) 237-9947

CHAIN OF CUSTODY RECORD

DISTRICT OFFICES Shipping Address: 122 S. St. Clair St. Toledo, OH 43602

Toledo, OH 43602 Phone (419) 255-8200 Fax (419) 255-7935 2416-B Over Drive Lexington, KY 40510 Phone (606) 233-0250 Fex (606) 253-0183

BILL TO	ن :					$\overline{}$	MAIL TO:			_	—	—			COPY TO:
	Dec	¥, Z=	7				Dest	. 7	7		—	—	<u>_</u>		J. Sainders
	r			ZIP	,		7					ZIP			ZIP
Phone (Attn:		_		Phone ()	_		Altn:		<u> </u>			Phone () Attn:
JOB NO			AME/COMPAN	ίΥ			<u> </u>				PP	IESE	RVAT	TIVE	PURCHASE ORDER NO.:
1182	12- 14	ydnor	uision												QUOTATION NO.:
SAMPLE	A: (Signatur	n l	unders		_	·						g) Sxide		CLIENT ACCOUNT ID:
	regn .					Phone ()			Acid	₂	Hydrochloric Acid	Sodium Hydroxide	. _ !	1 1
BM Sample	\ <u>'</u>	Sample	Ť	Сотрозітв			Sample	cor	NTAINERS	Sulfuric A	Nitric Acid	퉏	Ē	Ice-None	
No.	Date	Time	Туре	Sell t	Q E		ation/Description	No.	Тура	Suff	ž Ž	ž	8	<u>G</u>	LIST OF ANALYSIS / COMMENTS
	12/1/0	011:40	Water		K	77	ient	2	40 ml		\Box	x		\Box	VOC-Method 8260*
		13		T	Ti	11		1	18		<u> </u>			X	PAH-Method 8100
		11:50		1	1	EF51	uent	2	Hom			K		121	VOC - Method 8260 +
		17		1	Π		1	17	12	X	 	 			TOL
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	 	 		+	+	co.	118993	H		\vdash	H	-	╁─╵	+	INCL. cis-1,7 dichlorecthane
	+	+		+	+	CLEARING 7	<u>33558</u>		 /	\vdash	igwdapprox	—′	 '	+	
 		 	-	+	+	Sample##	01/712-0	<i> </i>]	<u> </u>	1	\square	<u> </u>	<u> </u>	\sqcup	
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<u> </u>	<u></u>	<u> </u>	<u> </u>												· .
mech	ished by: (Sign	Less		Date	€:\$	1. Received by	y: (Signature)	7	2. Relinquis	shed b	y: (Si	ignatu	119)		Date/Time 2. Received by: (Signature)
3 Relinquis	shed by: (Sign	iature)				3. Received by		7	4. Relinquis	shed b	ıy: (Si	Ignatu	116)		Date/Time 4. Received by: (Signature)
5. Relinqui;	ished by: (Sign	nature)		Date/1	itme	Received by L	aboratory //	1	Date Time	С	Cooler	No.	1	Cooler	r Temp *C Notes:



LOG NO: C0-12301 Received: 12 DEC 00 Reported: 27 DEC 00

Mr. Steve McFadden
HydroVision, Inc.
7094 Peachtree Executive Park Suite 300
Norcross, GA 30071

Project: BROWN-BRIDGE/SPINNAKER COATINGS

Sampled By: Client

Code: 080401227

ひにひへりか	OF.	RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	_
12301-1		12-11-00/09:40	_
PARAMETER		12301-1	_
Aromatic a	and Halogenated Volatiles (8021)		
Benzene,		<1.0	
	ene, ug/l	<3.0	
Bromodich	loromethane, ug/l	<1.0	
Bromoform	n, ug/l	<2.0	
Bromometh	nane (Methyl bromide), ug/l	<2.0	
Carbon te	etrachloride, ug/l	<1.0	
Chloroben	nzene, ug/l	<1.0	
	nane, ug/l	<5.0	
	thylvinyl ether, ug/l	<5.0	
Chlorofor		<2.0	
	chane, ug/l	<5.0	
	loromethane, ug/l	<5.0	
	thane (Methylene bromide), ug/l	<5.0	
	orobenzene, ug/l	<2.0	
•	orobenzene, ug/l	<2.0	
•	orobenzene, ug/l	<2.0	
	lifluoromethane, ug/l	<5.0	
•	oroethane, ug/l	<1.0	
•	oroethane, ug/1	<1.0	
•	oroethene, ug/l	<1.0	
•	Dichloroethene, ug/l	<1.0	
-	2-Dichloroethene, ug/l	<1.0	
-	loroethene (total), ug/l	<1.0	
	loropropane, ug/l	<1.0	
C18-1,3-D	Dichloropropene, ug/l	<1.0	



LOG NO: - C0-12301 Received: 12 DEC 00 Reported: 27 DEC 00

Mr. Steve McFadden HydroVision, Inc. 7094 Peachtree Executive Park Suite 300 Norcross, GA 30071

Project: BROWN-BRIDGE/SPINNAKER COATINGS

Sampled By: Client

Code: 080401227

REPORT OF RESULTS

ALL COLORS	DATE/
LOG NO SAMPLE DESCRIPTION , LIQUID SAMPLES	TIME SAMPLED
12301-1 KMW-6 .	
PARAMETER	12301-1
trans-1,3-Dichloropropene, ug/l Ethylbenzene, ug/l Methylene chloride (Dichloromethane), ug/l Methyl t-butyl ether (MTBE), ug/l 1,1,1,2-Tetrachloroethane, ug/l 1,1,2,2-Tetrachloroethane, ug/l Tetrachloroethene, ug/l Toluene, ug/l 1,1,1-Trichloroethane, ug/l 1,1,2-Trichloroethane, ug/l Trichloroethene, ug/l Trichlorofluoromethane, ug/l 1,2,3-Trichloropropane, ug/l	<1.0 <1.0 <5.0 <5.0 <1.0 <1.0 <3.0 <5.0 <1.0 <2.0 <1.0 <2.0
Vinyl chloride, ug/l Xylenes, Total, ug/l Surrogate - 4-Bromofluorobenzene (PID), ug/l Surrogate - 4-Bromofluorobenzene (ELCD), ug/l Dilution Factor Analysis Date Batch ID Prep Method Analyst	<2.0 105 % 114 % 1 12.21.00 PHW161 5030 CP



LOG NO: -C0-12301 Received: 12 DEC 00 Reported: 27 DEC 00

Mr. Steve McFadden HydroVision, Inc. 7094 Peachtree Executive Park Suite 300 Norcross, GA 30071

Project: BROWN-BRIDGE/SPINNAKER COATINGS

Sampled By: Client

Code: 080401227

REPORT OF RESULTS

		METON: C			DATE/	
LOG NO	SAMPLE DESCRIPTION ,	QC REPORT	FOR LIQUID	SAMPLES	•)
12301-2 12301-3	Method Blank Lab Control Standard	% Recovery				
PARAMETER				12301-2	12301-3	
Avenatie o	nd Halogenated Volatil					
Benzene, 1	_	1200) 652		<1.0	104 %	
Bromobenzo	-			<3.0		
	loromethane, ug/l					
Bromoform				<2.0		
	ane (Methyl bromide),	ug/1		<2.0		
	trachloride, ug/l			<1.0)	
	zene, ug/l			·<1.0		
Chloroetha	ane, ug/l			<5.0		
2-Chloroet	thylvinyl ether, ug/l			<5.0		
Chlorofor	n, ug/l			<2.0		
Chlorometl	hane, ug/l			<5.0		
	loromethane, ug/l			<5.0		
	thane (Methylene bromi	ide), ug/1				
•	orobenzene, ug/l			<2.0		
	orobenzene, ug/l			<2.0	_	
•	probenzene, ug/l			<2.0		
	ifluoromethane, ug/l			<5.6	-	
•	proethane, ug/l			<1.0	-	
•	oroethane, ug/l			<1.0	=	
	proethene, ug/1			<1.0		
	ichloroethene, ug/l			<1.0		
	-Dichloroethene, ug/l	15		<1.0	=	
-	oroethene (total), ug,	, T		<1.0	=	
1,2-Dichle	oropropane, ug/l			<1.0	υ	



LOG NO: C0-12301 Received: 12 DEC 00 Reported: 27 DEC 00

Mr. Steve McFadden HydroVision, Inc. 7094 Peachtree Executive Park Suite 300 Norcross, GA 30071

Project: BROWN-BRIDGE/SPINNAKER COATINGS

Sampled By: Client

Code: 080401227

REPORT OF RESULTS

Page 4

			DATE/	
LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR L	IQUID SAMPLES 1	TIME SAMPLED	
	Method Blank Lab Control Standard % Recovery		,	
PARAMETER		12301-2	12301-3	
cis-1.3-D	ichloropropene, ug/l	<1.0		
	-Dichloropropene, ug/l	<1.0		
Ethylbenz		<1.0		
•	chloride (Dichloromethane), ug/l	<5.0		
	butyl ether (MTBE), ug/l	<5.0		
1,1,1,2-T	etrachloroethane, ug/l	<1.0		
1,1,2,2-T	etrachloroethane, ug/l	<1.0		
Tetrachlo	roethene, ug/l	<3.0		
Toluene,	ug/l	<5.0	102 %	
	chloroethane, ug/l	<1.0		
1,1,2-Tri	chloroethane, ug/l	<2.0		
	ethene, ug/l	<1.0	110 %	
	fluoromethane, ug/l	<2.0		
	chloropropane, ug/l	<5.0		
	oride, ug/l	<1.0		
	Total, ug/l	<2.0		
	- 4-Bromofluorobenzene (PID), ug/l		95 %	
_	- 4-Bromofluorobenzene (ELCD), ug/l		106 %	
Dilution		1	_	
Analysis	Date		12.20.00	
Batch ID	_	PHW161		
Prep Meth	od	= : :	50 30	
Analyst		CP	CP	

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL Project Manager who signed this test report.

Rick Hayes, Project Manager

SEVERN TRENT LABORATORIES, INC. - PENSACOLA, FLORIDA STATE CERTIFICATIONS

Alabama Department of Environmental Management, Laboratory ID No. 40150 (Drinking Water by Reciprocity with FL)

Arizona Department of Health Services, Lab ID No. AZOS89 (Hazardous Waste & Wastewater)

Arkansas Department of Pollution Control and Ecology, (No Laboratory ID No. assigned by state) (Environmental)

State of California, Department of Health Services, Laboratory ID No. 2338 (Hazardous Waste and Wastewater)

State of Connecticut, Department of Health Services, Connecticut Lab Approval No. PH-0697 (Drinking Water, Hazardous Waste and Wastewater)

Delaware Health & Social Services, Division of Public Health, Laboratory ID No. FL094 (Drinking Water by Reciprocity with FL)

Florida DOH Laboratory ID No. E81010 (Drinking Water, Hazardous Waste and Wastewater)

Florida, Radioactive Materials License No. G0733-1

Foreign Soil Permit, Permit No. S-37599

Kansas Department of Health & Environment, Laboratory ID No. E10253 (Wastewater and Hazardous Waste)

Commonwealth of Kentucky, Natural Resources and Environmental Protection Cabinet, Laboratory ID No. 90043 (Drinking Water)

State of Louisiana, DHH, Office of Public Health Division of Laboratories, Laboratory ID No. LA000017 (Drinking Water)

Louisiana Department of Environmental Quality, Environmental Laboratory Accreditation Program, Agency Interest ID 30748 (Environmental - Accreditation Pending)

State of Maryland, DH&MH Laboratory ID No. 233 (Drinking Water by Reciprocity with Florida)

Commonwealth of Massachusetts, DEP, Laboratory ID No. M-FL094 (Hazardous Waste and Wastewater)

State of Michigan, Bureau of E&OccH, Laboratory ID No.9912 (Drinking Water by Reciprocity with Florida)

New Hampshire DES ELAP, Laboratory ID No. 250599A (Wastewater)

State of New Jersey, Department of Environmental Protection & Energy, Laboratory ID No. 49006 (Wastewate and Hazardous Waster)

New York State, Department of Health, Laboratory ID No. 11503 (Wastewater and Solids/Hazardous Waste)

North Carolina Department of Environment & Natural Resources, Laboratory ID No. 314 (Hazardous Waste and Wastewater)

North Dakota DH&Consol Labs, Laboratory ID No. R-108 (Drinking Water, Wastewater and Hazardous Waste by Reciprocity with Florida)

State of Oklahoma, Oklahoma Department of Environmental Quality, Laboratory ID No. 9810 (Hazardous Waste and Wastewater)

Commonwealth of Pennsylvania, Department of Environmental Resources, Laboratory ID No. 68-467 (Drinking Water)

South Carolina DH&EC, Laboratory ID No. 96026 (Wastewater by Reciprocity with FL and Solids/Hazardous Waste by Reciprocity with CA)

Tennessee Department of Health & Environment, Laboratory ID No. 02907 (Drinking Water)

Virginia Department of General Services, Laboratory ID No. 00008 (Drinking Water by Reciprocity with FL)

State of Washington, Department of Ecology, Laboratory ID No. C282 (Hazardous Waste and Wastewater)

West Virginia Division of Environmental Protection, Office of Water Resources, Laboratory ID No. 136 (Hazardous Waste and Wastewater by Reciprocity with FL)

American Industrial Hygiene Association (AIIIA) Accredited Laboratory, Laboratory ID No. 100704

word/certlist/condcert.lst revised 08/25/00



Data Qualifiers for Final Report

STL-Pensacola Inorga	nic/Organic
B1	The analyte was detected in the associated method blank (sample itself is flagged even though sample is ND).
82	The analyte was detected in the sample(s) and in the associated method blank analyzed on the day samples were extruded; however, this analyte was not detected in the blank analyzed with the samples.
В3	The analyte was found in the associated blank as well as in the associated sample(s) (qualifier is applied to the sample, notto
B4	the blank).
D	Sample results were corrected due to contaminants in Fractionation Blank
Ē	Diluted out (surrogate or spike due to sample ditution)
F	Compound concentration exceeds the upper calibration range of the instrument.
	The reported value is < STL-Pensacola RL and > the STL-Pensacola MDL; therefore, the quantitation is estimation (The STL-PN RL is at or above lowest calibration standard in the initial calibration curve).
G	Sample and/or duplicate result is at or below 5 X (times) the STL Reporting Limit and the absolute difference between the sample and duplicate result is at or below the STL reporting timit; therefore, the results are "in controt".
, Н1	_Sample and/or duplicate is below 5 X (times) the STL Reporting Limit and the absolute difference between the results exceeds the STL Reporting Limit; therefore, the results are "out of control"
H2	Sample and duplicate (or MS and MSD) RPD is above control limit.
J (description)	The analyte was positively identified, the quantitation may be an estimation
J4	(For positive results)Temperature limits exceeded (<2°C or ≥ 6°C), non-reportable for NDPES compliance monitoring.
J6	(For positive results) LCS or Surrogate %R is > upper control limit (UCL), results may be biased high
J7	The reported value is > the laboratory MDL and < lowest calibration standard; therefore, the quantitation is an estimation (this
	qualifier should only be used when the STL-PN RL is below the lowest calibration standard in the initial calibration).
J8	Matrix spike and post spike recoveries are outside control limits. See out of Control Events/Corrective Action Form.
19	(For positive results) LCS or Surrogate %R is < lower control limit (LCL), results may be biased low
M1	A matrix effect was present ('sample, MS or MSD was analyzed twice to confirm surrogate/spike failure, 'sample and/or MS/MSD chromatogram(s) had interfering peaks, 'sample result was > 4 X spike added, 'metals serial dilution was performed, or 'metals post spike is < 40% R)
M2	The MS and/or MSD %R or RPD was outside upper or lower control limits; not necessarily due to matrix effect.
N/C :	Not Calcutable; Sample spiked is > 4X spike concentration (may also use this flag in place of negative numbers)
NH	Sample and duplicate results are "out of control". The sample is nonhomogeneous.
NoMS	Not enough sample provided to prepare and/or analyze a method-required matrix spike (MS) and/or duplicate (MSD)
Q	The analytical (post digestion) spike is reported due to the percent recovery being outside limits on the matrix (pre- digestion) spike.
R (description)	The data may be unusable due to deficiencies in the ability to analyze the sample and meet QC criteria
R1	(For nondetects) Temperature limits exceeded (<2°C or > 6°C); non-reportable for NDPES compliance monitoring
R2	Improper preservation, no preservative present or insufficient amounts of preservative in sample upon receipt, non-reportable for NDPES compliance monitoring
R3	Improper preservation, incorrect preservative present in sample upon receipt, non-reportable for NPDES compliance
R4	Holding time exceeded, non-reportable for NDPES compliance monitoring.
R5	Collection requirements not met, improper container used for sample
R6	LCS or surrogate %R is < LCL and analyte is not detected or surrogate %R is < 10% for detects/nondetects.
R7	Internal standard area outside -50% to +100% of calibration verification standard.
R8	Initial calibration or any calibration verification exceeds acceptance criteria.
R9	Not filtered and preserved at time of collection.
R10	Headspace >1/4" in diameter in volatile vials, non-reportable for NPDES compliance monitoring
R11	Samples were filtered and preserved within 4 hours of collection.
R12	Analysis performed outside the 12-hour tune or not within tune criteria.
S1	The Method of Standard Additions (MSA) has been performed on this sample.
S2	Incorrect sample amount was submitted to the laboratory for analysis
S3 (Flashpoint)	This method is not designed for solids and the results may not be accepted by any regulator for such purposes.
Т	Second-column or detector confirmation exceeded the SW-846 criteria of 40% RPD for this compound.
TIC	The compound is not within the initial calibration curve. It is searched for qualitatively or as a Tentatively Identified Compound.
U	The reported value is ≤ Laboratory MDL (value for result will be the MDL, never below the MDL)
W	Post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is less than 50% spike

QCSHARE/FLAGSAQUALIFIERS/STL PENSACOLA/QUALIFIER/FAGE

' (Metals & Wet Chem)

Revised 11/21/00

Elevated reporting limit due to matrix interference (dilution prior to digestion and/or analysis)

Elevated reporting limit due to insufficient sample size

The compound has been quantitated against a one point calibration,

Adjusted reporting limit due to sample composition, not due to overcal (dilution prior to digestion and/or analysis).

STL Pensacola PROJECT SAMPLE INSPECTION FORM

SEVERN	
TRENT	
SERVICES	I

Lab	Order #:	012301	Date	e Rece	ived:	12-	12-60		SERVI	CES	
1,	Was there a Chair	n of Custody?		No⁴		8.	Were samples checked preservative? (Check ph requiring preservative (STL-I 917) except VOA vials that	of all H2O N SOP	Yes	No⁴	(N/A)
 3. 4. 6. 7. 	Was Chain of Custilled out and relin Were samples red (Criteria: 2° - 6°C: Were all samples labeled and identit Did samples required compositing*? Req By: PM Compositing*? Req By: PM Compositing* PM Composition of the comp	equished? seived cold? STL-SOP properly fied? ire splitting or client Other* ceived in for analysis		No ⁴ No ⁴ No ⁴ No ⁴ No ⁴	N/A	9. 10. 11.	Is there sufficient voluanalysis requested? Were samples received Holding Time? (REPERTO ST) Is Headspace visible > diameter in VOA vials; any headspace is evide comment in out-of-corsection. If sent, were matrix spottles returned? Was Project Manager of problems? (initials:	within L-sop 1040) 'A" in " If ent, atrol wike	Yes* Yes Yes	No ⁴ No ⁴ No ⁴	N/A (Can)
	bill Number(s):		122	<u> </u>			Shipped By: <u>f</u>			<u> </u>	
	oler Number(s): oler Weight(s):						Shipping Charg Cooler Temp(s) (UST THERMOMETER	(°C):	<u>ラ</u> の ラー		- -
<i>Ou</i>	t of Control Eve	ents and Insp	pection (Comm	nents.	; 					·
	· · · · · · · · · · · · · · · · · · ·						(Use BACK OF PSIF	OR ADOITION	L NOTES AND	COMMEN	is ligge
!ns	time semples(pH, L H Other, note who composited must b	() Itral and/or questions Vissolved O ₂ , Residue requested the aplittic e done in the Volatile	il CL) ex out d ng or composi n Leb. Docum	n Comment of bold time Iting of se ent: <u>"Vole</u>	it Section ie, therei imples o itile zam	of this i fore, thes n the Co pie value	ogged By: Resident of the season of this form. All a season of this form. All a may be compromised due to as the requested samples are to be in	rtici depertm d on this PS volstile semp mple splittin	ent will flag IF. ples request g (composit	immedia ed to be ling)"	te hold
		P 938, section 2.2.9									

According to EPA, ¼ " of heedspace is allowed in 40 ml visis requiring volatile analysis, however, STL makes it policy to record any heedspace as out-of-

control (STL-SOP 938, section 2.2.12).



CORPORATE OFFICE

BOWSER Shipping Address: 4518 Taylorsville Road Dayton, OH 45424 Shipping Address: Phone (937) 236-8805 Fax (937) 237-9947

CHAIN OF CUSTODY RECORD

DISTRICT OFFICES Shipping Address: 122 S. St. Clair St. Toledo, OH 43602

Lexington, KY 40510 Phone (606) 233-0250 Fax (606) 253-0183

2416-B Over Drive

(0/2 30/

Phone (419) 255-8200 Fax (419) 255-7935

BILL TO:	Hydrei	يتعنوس	Lax				MAIL TO: Sarue						COPY TO:		
7094 1	Countree	Ladi	Inc.	Sludi	, 51	k. 300									
NevLLO	55, C-	4	·	ZIP	300	7.1						ZIP			ZIP
Phone ()≵	446-5	5445	Attn: 5,	Mitz	λd	en	Phone ()			Attn:					Phone () Attn:
JOB NO.	PRO	JECT NA	ME/COMPAN	łΥ							PR	IESEI	RVAT	IVE	PURCHASE ORDER NO.:
	B:	rown L	Bridage 1	1500	OA?	ker i	Coatings								QUOTATION NO.:
SAMPLER	t: (Signature) }	11 /				12.5 17 12-			1		먕	žig		
700	t: (Signature	Dau	بلانكي			Phone (4	37) 236 - 8805° e	, p.t.	288	Acid		Hydrochloric Acld	Sodium Hydroxide		CLIENT ACCOUNT ID:
вми		Sample) T	aske			Sample		ITAINERS) Š	A A	8	Ę	Š	
Şample No.	Date	Time	Туре	Composite	Grab	Lo	ocation/Description	No.	Туре	Sulfuric	Nitric Acid	Hyd	Sod	Ice-None	LIST OF ANALYSIS / COMMENTS
1	12/11/00	9:40	GW		À	KMU	V-6	2	rent			X			VOL-MeHyd SOLO
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^	hed by: (Sign:			Date/1	∏me L S∵CC	1. Receive	chusen 12/12/12/12/12/12/12/12/12/12/12/12/12/1	216) L-1201	2. Relinqu	ished	by: (S	llgnatu	ite)		Date/Time 2. Received by: (Signature)
Theilinguished by: (Signature) 10113: CC Julic Johnson 114 Date/Time 3. Received by: (Signature)				d by: (Signature)		4. Relinqu	ished	by: (S	ignatu	116)	_	Date/Time 4. Received by: (Signature)			
5. Relinquis	hed by: (Signa	ature)		Oate/1	îme	Received b	by Laboratory		Date/Time	,	Cooler	No.		Cooler	Temp *C Notes:



LOG NO: - CO-12369 Received: 15 DEC 00 Reported: 29 DEC 00

Mr. Steve McFadden HydroVision, Inc. 7094 Peachtree Executive Park Suite 300 Norcross, GA 30071

Project: BROWN-BRIDGE/SPINNAKER COATINGS

Sampled By: Client

Code: 133101229 Page 1

	KBI OK	or RECORTE	_	2 mm /	ruge r
LOG NO SAMPLE DESCRIPTION	LIOUID	פא זמאא:		ATE/ ME SAMPLED	
DOG NO SAMPLE DESCRIPTION	, biQUID 3)AMP 1553		ms SAMPLED	
12369-1 KMW-5				-13-00/12:1	.5
12369-2 EEIB-4				-13-00/14:4	
12369-3 EEIB-2			12	-13-00/13:4	5
12369-4 PW-2			12	-13-00/14:0	0
12369-5 PW-3			12	-13-00/14:1	5
PARAMETER	12369-1	12369-2	12369-3	12369-4	12369-5
Aromatic and Halogenated					
Volatiles (8021)	-1 (1 0	-1 0	-3 0	-3 0
Benzene, ug/l Bromobenzene, ug/l) <1.0) <3.0		<1.0 <3.0	
-) <3.0) <1.0			
Bromoform, ug/l		<2.0			
Bromomethane (Methyl	<2.0				
bromide), ug/l	\2.(, \2.0	\2.0	~2.0	(2.0
Carbon tetrachloride, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene, ug/l	<1.0		<1.0	<1.0	
Chloroethane, ug/l	<5.0		<5.0	<5.0	
2-Chloroethylvinyl ether, ug/			<5.0	<5.0	
Chloroform, ug/l	<2.0				
Chloromethane, ug/l	<5.0	<5.0			
Dibromochloromethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromomethane (Methylene bromide), ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene, ug/l	<2.0	<2.0	<2.0	<2.0	<2.0
1,3-Dichlorobenzene, ug/l		<2.0	· •		
1,4-Dichlorobenzene, ug/l	<2.0			-	
Dichlorodifluoromethane, ug/l		<5.0			
1,1-Dichloroethane, ug/l	1.8			<1.0	14



LOG NO: -C0-12369 Received: 15 DEC 00 Reported: 29 DEC 00

Mr. Steve McFadden HydroVision, Inc. 7094 Peachtree Executive Park Suite 300 Norcross, GA 30071

Project: BROWN-BRIDGE/SPINNAKER COATINGS

Sampled By: Client Code: 133101229

		REPORT (F RESULTS			Page 2
				D.	ATE/	
LOG NO	SAMPLE DESCRIPTION , I	ARZ DIUDI	PLES!	TI	ME SAMPLED	
10060 1	vida 6			13	-13-00/12:1	
12369-1	KMW-5				-13-00/12:1 -13-00/14:4	
12369-2 12369-3	EEIB-4 EEIB-2				-13-00/14:4 -13-00/13:4	
12369-4	PW-2				-13-00/13:4 -13-00/14:0	
12369-5	PW-3				-13-00/14:1	
PARAMETER		12369-1	12369-2	12369-3	12369-4	12369-5
1.2-Dichlo	proethane, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0.
	proethene, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
	ichloroethene, ug/l	2.5	35	1.9	<1.0	52
trans-1,2	Dichloroethene, ug/l	<1.0	<1.0	<1.0	<1.0	1.2
1,2-Dichlo	proethene (total), ug/l	2.5	35	1.9	<1.0	53
1,2-Dichlo	propropane, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Di	ichloropropene, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3	-Dichloropropene, ug/l	<1.0	<1.0	1.1	<1.0	<1.0
Ethylbenze		<1.0	<1.0	<1.0	<1.0	<1.0
Methylene		<5.0	<5.0	<5.0	<5.0	<5.0
	omethane), ug/l	_				
	outyl ether (MTBE), ug/		<5.0	<5.0	<5.0	<5.0
	etrachloroethane, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
	etrachloroethane, ug/l	<1.0-	<1.0	<1.0	<1.0	<1.0
	roethene, ug/l	8.1	74	<3.0	<3.0	<3.0
Toluene, u		<5.0	<5.0	<5.0	<5.0	<5.0
	chloroethane, ug/l	3.4	<1.0	<1.0	<1.0	9.9
	chloroethane, ug/l	<2.0	<2.0	<2.0	<2.0	<2.0
	ethene, ug/l	2.9	3.4	<1.0	<1.0	9.5
	fluoromethane, ug/l	<2.0	<2.0	<2.0	<2.0	<2.0
	chloropropane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
vinyl chlo	oride, ug/l	<1.0	<1.0	<1.0	<1.0	8.0R8



LOG NO: CO-12369 Received: 15 DEC 00 Reported: 29 DEC 00

Mr. Steve McFadden HydroVision, Inc. 7094 Peachtree Executive Park Suite 300 Norcross, GA 30071

Project: BROWN-BRIDGE/SPINNAKER COATINGS

Sampled By: Client

Code: 133101229

LOG NO	SAMPLE DESCRIPTION ,	LIQUID	SAMI	PLES		DATE/ FIME SAMPLEI)
12369-2 12369-3 12369-4	KMW-5 EEIB-4 EEIB-2 PW-2 PW-3			·		12-13-00/12 12-13-00/14 12-13-00/13 12-13-00/14 12-13-00/14	: 45 : 45 : 00
PARAMETER		12369-	1	12369-2	12369-3	12369-4	12369-5
Xylenes, T Surrogate 4-Bromofl ug/l	· - · - · · · · · · · · · · · ·	<2. 104		<2.0 104 %			
Surrogate	uorobenzene	115	*	115 %	116 %	118 %	120 %
Dilution F	'actor		1	1	1	1	1
Analysis D	ate	12.23.0	0	12.23.00	12.23.00	12.26.00	12.26.00
Batch ID		PHW16	52	PHW162	PHW163	PHW164	PHW164
Prep Metho	od .	503	0.0	5030	5030	5030	5030
Analyst		C	P	CP	CP	CP	CP



LOG NO: .CO-12369 Received: 15 DEC 00 Reported: 29 DEC 00

Mr. Steve McFadden HydroVision, Inc. 7094 Peachtree Executive Park Suite 300 Norcross, GA 30071

Project: BROWN-BRIDGE/SPINNAKER COATINGS

Sampled By: Client

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REPORT OF	F RESULTS		צ
		DATE/	

LOG NO	SAMPLE DESCRIPTION ,	LIQUID SAM	PLES		ATE/ ME SAMPLED	
12369-6	PW-4				-13-00/14:	
12369-7	GZA-1				-13-00/12:	
12369-8	PW-1				-13-00/09:	
12369-9					-13-00/13:	
12369-10	KMW-8			12	-13-00/11:	00
PARAMETER	•	12369-6	12369-7	12369-8	12369-9	12369-10
Aromatic a	and Halogenated		-			
Volatile						
Benzene,	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenz	ene, ug/l	<3.0	<3.0	<3.0	<3.0	<3.0
Bromodich	loromethane, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	ι, ug/l	<2.0	<2.0	<2.0	<2.0	<2.0
Bromometh bromide)	nane (Methyl	<2.0	<2.0	<2.0	<2.0	<2.0
	trachloride, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
	izene, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
	nane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
	thylvinyl ether, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorofor		<2.0	<2.0	<2.0	<2.0	<2.0
	hane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
	loromethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromome bromide)	ethane (Methylene	<5.0	<5.0	<5.0	<5.0	<5.0
	orobenzene, ug/l	<2.0	<2.0	<2.0	<2.0	<2.0
	orobenzene, ug/l	<2.0	<2.0	<2.0	<2.0	<2.0
	orobenzene, ug/l	<2.0	<2.0	<2.0	<2.0	<2.0
	lifluoromethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
	loroethane, ug/l	1.4	<1.0	<1.0	<1.0	<1.0



LOG NO: - C0-12369 Received: 15 DEC 00 Reported: 29 DEC 00

Mr. Steve McFadden HydroVision, Inc. 7094 Peachtree Executive Park Suite 300 Norcross, GA 30071

1,1,2-Trichloroethane, ug/l

Trichlorofluoromethane, ug/l

1,2,3-Trichloropropane, ug/l

Vinyl chloride, ug/l .

Trichloroethene, ug/l

Project: BROWN-BRIDGE/SPINNAKER COATINGS

Sampled By: Client

		REPORT O	F RESULTS	D	Code:	: 133101229 Page 5
LOG NO	SAMPLE DESCRIPTION , L	IQUID SAM	PLES		ME SAMPLED	
12369-6	PW-4				-13-00/14:3	
12369-7	GZA-1				-13-00/12:5	
12369-8	PW-1				-13-00/09:4	
12369-9					-13-00/13:3	
12369-10	KMW-8			12	-13-00/11:0	00
PARAMETER			12369-7	12369-8	12369-9	12369-10
1.2-Dichl	oroethane, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
	oroethene, ug/l	<1.0				
•	ichloroethene, ug/l	18	<1.0	<1.0	<1.0	5.5
	-Dichloroethene, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichl	oroethene (total), ug/l	18	<1.0	<1.0	<1.0	5.5
1,2-Dichl	oropropane, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-D	ichloropropene, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3	-Dichloropropene, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenz	ene, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene	chloride	<5.0	<5.0	<5.0	<5.0	<5.0
(Dichlor	omethane), ug/l					
Methyl t-	butyl ether (MTBE), ug/	1 <5.0	<5.0	<5.0	<5.0	
1,1,1,2-T	etrachloroethane, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-T	etrachloroethane, ug/l	<1.0 -	<1.0	<1.0	<1.0	<1.0
Tetrachlo	roethene, ug/l	<3.0	40	<3.0	25	<3.0
Toluene,	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1-Tri	chloroethane, ug/l	<1.0	1.9	<1.0	<1.0	<1.0
	1.7	~ ~	2 2		2 2	

<2.0

2.6

<2.0

<5.0

3.7R8

<2.0

2.2

<2.0

<5.0

<1.0

<2.0

<1.0

<2.0

<5.0

<1.0

<2.0

2.4

<2.0

<5.0

<1.0

<2.0

<1.0

<2.0 <5.0

<1.0



LOG NO: . C0-12369 Received: 15 DEC 00 Reported: 29 DEC 00

Mr. Steve McFadden HydroVision, Inc. 7094 Peachtree Executive Park Suite 300 Norcross, GA 30071

Project: BROWN-BRIDGE/SPINNAKER COATINGS

Sampled By: Client

Code: 133101229

		REPORT	OF RESULTS			Page 6
LOG NO	SAMPLE DESCRIPTI	ON , LIQUID SA	MPLES		DATE/ IME SAMPLED	
12369-6	PW-4			1	2-13-00/14:	30
12369-7	GZA-1			1	2-13-00/12:	50
12369-8	PW-1				2-13-00/09:4	
12369-9	KMW - 7			1	2-13-00/13::	35
12369-10	KMW - 8			1	2-13-00/11:	00
PARAMETER		12369-6	12369-7	12369-8	12369-9	12369-10
Xylenes,	Total, ug/l	<2.0	<2.0	<2.0	<2.0	<2.0
Surrogate	-	_ · ·	106 %	106 %	106 %	107 %
Surrogate	luorobenzene	119 %	119 %	118 %	117 %	119 %
Dilution	-	1	1	1	1	1
Analysis 1	Date	12.26.00	12.26.00	12.26.00	12.27.00	12.27.00
Batch ID		PHW164	PHW163	PHW163	PHW163	PHW164
Prep Metho	od	5030	5030	5030	5030	5030
Analyst		CP	CP	CP	CP	CP



LOG NO: C0-12369 Received: 15 DEC 00 Reported: 29 DEC 00

Mr. Steve McFadden HydroVision, Inc. 7094 Peachtree Executive Park Suite 300 Norcross, GA 30071

Project: BROWN-BRIDGE/SPINNAKER COATINGS

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	TI TI	ATE/ ME SAMPLED	rage ,
12369-11	KMW-9	12	:-13-00/11:30	
	EEIB-12			
PARAMETER		12369-11	12369-12	
Aromatic a	nd Halogenated Volatiles (8021)			
Benzene,		<1.0	<1.0	
Bromobenz		<3.0	<3.0	
	loromethane, ug/l	<1.0		
Bromoform	-	<2.0	<2.0	
	ane (Methyl bromide), ug/l	<2.0	<2.0	
	trachloride, ug/l		<1.0	
	zene, ug/l	<1.0	<1.0	
	ane, ug/l	<5.0	<5.0	
	thylvinyl ether, ug/l	<5.0	<5.0	
Chlorofor			<2.0	
	hane, ug/l	<5:0	<5.0	
	loromethane, ug/l		<5.0	
	thane (Methylene bromide), ug/l	<5.0	<5.0	
	orobenzene, ug/l	<2.0	<2.0	
	orobenzene, ug/l	<2.0	<2.0	
	orobenzene, ug/l	<2.0	<2.0	
Dichlorod	ifluoromethane, ug/l		<5.0	
1,1-Dichl	oroethane, ug/l	<1.0	1.1	
1,2-Dichl	oroethane, ug/l	<1.0	<1.0	
1,1-Dichl	oroethene, ug/l	<1.0	<1.0	
cis-1,2-D	pichloroethene, ug/l		5.3	
trans-1,2	-Dichloroethene, ug/l	<1.0	<1.0	
1,2-Dichl	oroethene (total), ug/l	4.1	5.3	
1,2-Dichl	oropropane, ug/l	<1.0	<1.0	



LOG NO: CO-12369 Received: 15 DEC 00 Reported: 29 DEC 00

Mr. Steve McFadden HydroVision, Inc. 7094 Peachtree Executive Park Suite 300 Norcross, GA 30071

Project: BROWN-BRIDGE/SPINNAKER COATINGS

Sampled By: Client

Code: 133101229

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	1,41411 41 1,04411	~	DATE/	
LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES			
12369-11 12369-12	KMW-9 EEIB-12	12	2-13-00/11:30 2-13-00/10:15	
PARAMETER		12369-11	12369-12	
cis-1,3-D trans-1,3 Ethylbenz Methylene Methyl t- 1,1,1,2-T 1,1,2,2-T Tetrachlo Toluene, 1,1,1-Tri 1,1,2-Tri Trichloro Trichloro Trichloro 1,2,3-Tri Vinyl chl Xylenes, Surrogate	cichloropropene, ug/l -Dichloropropene, ug/l ene, ug/l chloride (Dichloromethane), ug/l butyl ether (MTBE), ug/l etrachloroethane, ug/l etrachloroethane, ug/l roethene, ug/l ug/l chloroethane, ug/l chloroethane, ug/l chloroethane, ug/l chloromethane, ug/l ethene, ug/l fluoromethane, ug/l chloropropane, ug/l oride, ug/l Total, ug/l - 4-Bromofluorobenzene (PID), ug/l Factor	<1.0 <1.0 <1.0 <5.0 <5.0 <1.0 <1.0 <3.0 <5.0 1.4 <2.0 <5.0 <1.1R8 <2.0 106 %	<1.0 <1.0 <1.0 <5.0 <5.0 <1.0 <1.0 <2.0 <2.0 <5.0 <1.0 <2.0 <2.0	
Batch ID Prep Meth Analyst		PHW164 5030 CP	PHW164	



LOG NO: C0-12369 Received: 15 DEC 00 Reported: 29 DEC 00

Mr. Steve McFadden HydroVision, Inc. 7094 Peachtree Executive Park Suite 300 Norcross, GA 30071

Project: BROWN-BRIDGE/SPINNAKER COATINGS

Sampled By: Client

Code: 133101229

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	
12369-13	Trin Blank	12-13-00
PARAMETER		12369-13
	and Halogenated Volatiles (8021)	
Benzene,	ug/l	<1.0
Bromoben	zene, ug/l	<3.0
Bromodic	hloromethane, ug/l	<1.0
Bromofor	m, ug/l	<2.0
Bromomet)	hane (Methyl bromide), ug/l	<2.0
Carbon to	etrachloride, ug/l	<1.0
Chlorobe	nzene, ug/l	<1.0
Chloroet	hane, ug/l	<5.0 .
	ethylvinyl ether, ug/l	<5.0
Chlorofo		<2.0
	thane, ug/l	<5.0
	hloromethane, ug/l	<5.0
	ethane (Methylene bromide), ug/l	<5.0
	lorobenzene, ug/l	<2.0
•	lorobenzene, ug/l	<2.0
	lorobenzene, ug/l	<2.0
	difluoromethane, ug/l	<5.0
	loroethane, ug/l	<1.0
	loroethane, ug/l	<1.0
1,1-Dich	loroethene, ug/l	<1.0
-	Dichloroethene, ug/l	<1.0
	2-Dichloroethene, ug/l	<1.0
	loroethene (total), ug/l	<1.0
	loropropane, ug/l	<1.0
cis-1,3-	Dichloropropene, ug/l	<1.0



LOG NO: - C0-12369 Received: 15 DEC 00 Reported: 29 DEC 00

Mr. Steve McFadden HydroVision, Inc. 7094 Peachtree Executive Park Suite 300 Norcross, GA 30071

Project: BROWN-BRIDGE/SPINNAKER COATINGS

Sampled By: Client Code: 133101229

REPORT OF RESULTS Page 10

	REPORT OF RESOUR	DATE/
LOG NO SAMPLE DESCRIPTION , L	IQUID SAMPLES	TIME SAMPLED
12369-13 Trip Blank		12-13-00
DADAMETER	12	369-13
trans-1,3-Dichloropropene, ug/l Ethylbenzene, ug/l Methylene chloride (Dichlorometh Methyl t-butyl ether (MTBE), ug/l 1,1,2-Tetrachloroethane, ug/l 1,1,2-Tetrachloroethane, ug/l Tetrachloroethene, ug/l Toluene, ug/l 1,1,1-Trichloroethane, ug/l 1,1,2-Trichloroethane, ug/l Trichloroethene, ug/l Trichlorofluoromethane, ug/l Trichlorofluoromethane, ug/l 1,2,3-Trichloropropane, ug/l Vinyl chloride, ug/l Xylenes, Total, ug/l Surrogate - 4-Bromofluorobenzene Surrogate - 4-Bromofluorobenzene Dilution Factor Analysis Date	ane), ug/l l (PID), ug/l (ELCD), ug/l	<1.0 <1.0 <5.0 <5.0 <1.0 <1.0 <3.0 <5.0 <1.0 <2.0 <1.0 <2.0 <1.0 <2.0 <1.0 <2.0 <1.0 <2.0 <1.0 <2.0 <1.0 <2.0 <1.0 <2.0
Batch ID Prep Method Analyst		PHW163 5030 CP
		· • •



LOG NO: ·C0-12369 Received: 15 DEC 00 Reported: 29 DEC 00

Mr. Steve McFadden
HydroVision, Inc.
7094 Peachtree Executive Park Suite 300
Norcross, GA 30071

Project: BROWN-BRIDGE/SPINNAKER COATINGS

Sampled By: Client

Code: 133101229

REPORT OF RESULTS

REPORT OF RESOURCE		D200 /	
LOG NO SAMPLE DESCRIPTION , QC REPORT FOR LIQUID	SAMPLES		
12369-14 Method Blank 12369-15 Lab Control Standard % Recovery			
	12369-14	12369-15	
Aromatic and Halogenated Volatiles (8021)			
Benzene, ug/l	<1.0	98 %	
Bromobenzene, ug/l	<3.0		
Bromodichloromethane, ug/l	<1.0		
Bromoform, ug/l	<2.0		
Bromomethane (Methyl bromide), ug/1	<2.0		
Carbon tetrachloride, ug/l	<1.0		
Chlorobenzene, ug/l	<1.0	96 %	
Chloroethane, ug/l	<5.0		
2-Chloroethylvinyl ether, ug/l	<5.0		
Chloroform, ug/l	<2.0		
Chloromethane, ug/l	<5.0		
Dibromochloromethane, ug/l	<5.0		
Dibromomethane (Methylene bromide), ug/l	<5.0		
1,2-Dichlorobenzene, ug/l	<2.0		
1,3-Dichlorobenzene, ug/l	<2.0		
1,4-Dichlorobenzene, ug/l	<2.0		
Dichlorodifluoromethane, ug/l	< 5.0		
1,1-Dichloroethane, ug/l	<1.0		
1,2-Dichloroethane, ug/l	<1.0		
1,1-Dichloroethene, ug/l	<1.0	124 %	
cis-1,2-Dichloroethene, ug/l	<1.0		
trans-1,2-Dichloroethene, ug/l	<1.0		
1,2-Dichloroethene (total), ug/l	<1.0		
1,2-Dichloropropane, ug/l	<1.0		



LOG NO: CO-12369 Received: 15 DEC 00 Reported: 29 DEC 00

Mr. Steve McFadden HydroVision, Inc. 7094 Peachtree Executive Park Suite 300 Norcross, GA 30071

Project: BROWN-BRIDGE/SPINNAKER COATINGS

DAME /

Sampled By: Client

Code: 133101229

REPORT OF RESULTS

Page 12

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR	LIQUID SAMPLES		
	Method Blank Lab Control Standard % Recovery			
PARAMETER		12369-14	12369-15	
trans-1,3 Ethylbenz Methylene Methyl t- 1,1,2-T 1,1,2-T Tetrachlo Toluene, 1,1,1-Tri 1,1,2-Tri Trichloro Trichloro 1,2,3-Tri Vinyl chl Xylenes, Surrogate Surrogate Dilution Analysis Batch ID Prep Meth	chloride (Dichloromethane), ug/l butyl ether (MTBE), ug/l etrachloroethane, ug/l etrachloroethane, ug/l roethene, ug/l ug/l chloroethane, ug/l chloroethane, ug/l ethene, ug/l fluoromethane, ug/l fluoromethane, ug/l chloropropane, ug/l oride, ug/l Total, ug/l - 4-Bromofluorobenzene (PID), ug/l - 4-Bromofluorobenzene (ELCD), ug/ Factor Date	<1.0 <1.0 <1.0 <5.0 <5.0 <1.0 <1.0 <2.0 <1.0 <2.0 <1.0 <2.0 11.0 <2.0 PHW162 5030	110 % 108 % 92 % 112.22.00 PHW162 5030	
Analyst	•	CP	CP	

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL Project Manager who signed this test report.

Rick Hayes, Project Manager



Data Qualifiers for Final Report

STL-Pensacola Inorganic/Organic

STL Pensacola

4.74

B1 The analyte was detected in the associated method blank (sample itself is flagged even though sample is ND). 82 The analyte was detected in the sample(s) and in the associated method blank analyzed on the day samples were

extruded; however, this analyte was not detected in the blank analyzed with the samples.

B3 The analyte was found in the associated blank as well as in the associated sample(s) (qualifier is applied to the sample, notto

the blank).

H1

J8

R7

B4 Sample results were corrected due to contaminants in Fractionation Blank

D Diluted out (surrogate or spike due to sample dilution)

Ε Compound concentration exceeds the upper calibration range of the instrument.

F The reported value is < STL-Pensacola RL and > the STL-Pensacola MDL; therefore, the quantitation is estimation (The

STL-PN RL is at or above lowest calibration standard in the initial calibration curve).

G Sample and/or duplicate result is at or below 5 X (times) the STL Reporting Limit and the absolute difference between the

sample and duplicate result is at or below the STL reporting limit; therefore, the results are "in controt".

Sample and/or duplicate is below 5 X (times) the STL Reporting Limit and the absolute difference between the results

exceeds the STL Reporting Limit; therefore, the results are "out of control" H2 Sample and duplicate (or MS and MSD) RPD is above control limit.

J (description) The analyte was positively identified, the quantitation may be an estimation

(For positive results)Temperature limits exceeded (<2°C or ≥ 6°C), non-reportable tor NDPES compliance monitoring. **J4**

J6 (For positive results) LCS or Surrogate %R is > upper control limit (UCL), results may be biased high

The reported value is > the laboratory MDL and < lowest calibration standard; therefore, the quantitation is an estimation (this J7

qualifier should only be used when the STL-PN RL is below the lowest calibration standard in the initial calibration).

Matrix spike and post spike recoveries are outside control limits. See out of Control Events/Corrective Action Form.

J9 (For positive results) LCS or Surrogate %R is < lower control limit (LCL), results may be biased low

M₁ A matrix effect was present ('sample, MS or MSD was analyzed twice to confirm surrogate/spike failure, 'sample and/or

MS/MSD chromatogram(s) had interfering peaks, *sample result was > 4 X spike added, *metals serial dilution was

performed, or smetals post spike is < 40% R)

M2 The MS and/or MSD %R or RPD was outside upper or lower control limits; not necessarily due to matrix effect. Not Calculable; Sample spiked is > 4X spike concentration (may also use this flag in place of negative numbers) N/C

NH Sample and duplicate results are "out of control". The sample is nonhomogeneous.

NoMS Not enough sample provided to prepare and/or analyze a method-required matrix spike (MS) and/or duplicate (MSD) O

The analytical (post digestion) spike is reported due to the percent recovery being outside limits on the matrix (pre-

digestion) spike.

R (description) The data may be unusable due to deficiencies in the ability to analyze the sample and meet QC criteria

R1 (For nondetects) Temperature limits exceeded (<2°C or ≥ 6°C); non-reportable for NDPES compliance monitoring

R2 Improper preservation, no preservative present or insufficient amounts of preservative in sample upon receipt, non-reportable

for NDPES compliance monitoring

R3 Improper preservation, incorrect preservative present in sample upon receipt, non-reportable for NPDES compliance

R4 Holding time exceeded, non-reportable for NOPES compliance monitoring. R5 Collection requirements not met, improper container used for sample

R6 LCS or surrogate %R is < LCL and analyte is not detected or surrogate %R is < 10% for detects/nondetects.

Internal standard area outside -50% to +100% of calibration verification standard.

R8 Initial calibration or any calibration verification exceeds acceptance criteria.

R9 Not filtered and preserved at time of collection.

R10 Headspace >1/4" in diameter in volatile vials, non-reportable for NPDES compliance monitoring

R11 Samples were filtered and preserved within 4 hours of collection. R12 Analysis performed outside the 12-hour tune or not within tune criteria.

S1 The Method of Standard Additions (MSA) has been performed on this sample.

Incorrect sample amount was submitted to the laboratory for analysis S2

This method is not designed for solids and the results may not be accepted by any regulator for such purposes. S3 (Flashpoint)

Second-column or detector confirmation exceeded the SW-846 criteria of 40% RRD for this compound.

TIC The compound is not within the initial calibration curve. It is searched for qualitatively or as a Tentatively Identified -

Compound.

The reported value is < Laboratory MDL (value for result will be the MDL, never below the MDL)

W Post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is less than 50% spike

@ Adjusted reporting limit due to sample composition, not due to overcal (dilution prior to digestion and/or analysis).

Elevated reporting limit due to insufficient sample size

The compound has been quantitated against a one point calibration.

(Metals & Wet Chem) Elevated reporting limit due to matrix interference (dilution prior to digestion and/or analysis)

OCSHAREIFLAGS&QUALIFIERSISTL PENSACOLA QUALIFIERPAGE

SEVERN TRENT LABORATORIES, INC. - PENSACOLA, FLORIDA STATE CERTIFICATIONS

Mahama Department of Environmental Management, Laboratory ID No. 40150 (Drinking Water by Reciprocity with FL)

Arizona Department of Health Services, Lab ID No. AZ0589 (Hazardous Waste & Wastewater)

Arkansas Department of Pollution Control and Ecology, (No Laboratory ID No. assigned by state) (Environmental)

State of California, Department of Health Services, Laboratory ID No. 2338 (Hazardous Waste and Wastewater)

State of Connecticut, Department of Health Services, Connecticut Lab Approval No. PH-0697 (Drinking Water, Hazardous Waste and Wastewater)

Delaware Health & Social Services, Division of Public Health, Laboratory ID No. FL094 (Drinking Water by Reciprocity with FL)

Florida DOH Laboratory ID No. E81010 (Drinking Water, Hazardous Waste and Wastewater)

Florida, Radioactive Materials License No. G0733-1

Foreign Soil Permit, Permit No. S-37599

Kansas Department of Health & Environment, Laboratory ID No. E10253 (Wastewater and Hazardous Waste)

Commonwealth of Kentucky, Natural Resources and Environmental Protection Cabinet, Laboratory ID No. 90043 (Drinking Water)

State of Louisiana, DHH, Office of Public Health Division of Laboratories, Laboratory ID No. LA000017 (Drinking Water)

Louisiana Department of Environmental Quality, Environmental Laboratory Accreditation Program, Agency Interest ID 30748 (Environmental Accreditation Pending)

State of Maryland, DH&MH Laboratory ID No. 233 (Drinking Water by Reciprocity with Florida)

Commonwealth of Massachusetts, DEP, Laboratory ID No. M-FL094 (Hazardous Waste and Wastewater)

State of Michigan, Bureau of E&OccH, Laboratory ID No.9912 (Drinking Water by Reciprocity with Florida)

New Hampshire DES ELAP, Laboratory ID No. 250599A (Wastewater)

State of New Jersey, Department of Environmental Protection & Energy, Laboratory ID No. 49006 (Wastewate and Hazardous Waster)

New York State, Department of Health, Laboratory ID No. 11503 (Wastewater and Solids/Hazardous Waste)

North Carolina Department of Environment & Natural Resources, Laboratory ID No. 314 (Hazardous Waste and Wastewater)

North Dakota DH&Consol Labs, Laboratory ID No. R-108 (Drinking Water, Wastewater and Hazardous Waste by Reciprocity with Florida)

State of Oklahoma, Oklahoma Department of Environmental Quality, Laboratory ID No. 9810 (Hazardous Waste and Wastewater)

Commonwealth of Pennsylvania, Department of Environmental Resources, Laboratory ID No. 68-467 (Drinking Water)

South Carolina DH&EC, Laboratory ID No. 96026 (Wastewater by Reciprocity with FL and Solids/Hazardous Waste by Reciprocity with CA)

Tennessee Department of Health & Environment, Laboratory ID No. 02907 (Drinking Water)

Virginia Department of General Services, Laboratory ID No. 00008 (Drinking Water by Reciprocity with FL)

State of Washington, Department of Ecology, Laboratory ID No. C282 (Hazardous Waste and Wastewater)

West Virginia Division of Environmental Protection, Office of Water Resources, Laboratory ID No. 136 (Hazardous Waste and Wastewater by Reciprocity with FL)

American Industrial Hygiene Association (AIHA) Accredited Laboratory, Laboratory ID No. 100704
\text{lwordscertlistscondcert.lst} revised 08/25/00

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CHAIN OF CUSTODY

Severn Trent Laboratories

3355 McLemore Drive • Pensacola, FL 32514 Tel: (850) 474-1001- • Fax (850) 474-4789

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こっテマ CHAIN OF CUSTODY

3355 McLemore Drive • Pensacota, FL 32514 Tel: (850) 474-1001- • Fax (850) 474-4789

LAB ACCESSION # CO12369

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STL Pensacola PROJECT SAMPLE INSPECTION FORM

Lab Order #:	12369 Da	ate Received	: <u>12-14-00</u>	SERVICES	
1. Was there a Chair	of Custody?	No⁴	8. Were samples checked for preservative? (Check pH of all requiring preservative (STL-PN SOI 917) except VOA vials that require	P	(N/A)
Was Chain of Cus filled out and relin Were samples rec	quished?	No* N/A	9. Is there sufficient volume for analysis requested? 10. Were samples received with Holding Time? (ROPER TO STELSOP 1)	nin (Yes) No*	N/A (Can)
(Criteria: 2° - 6°C: 4. Were all samples labeled and identifulation of the samples required to the compositing 1°?	properly (Yes)	No.	11. Is Headspace visible > ¼ " diameter in VOA vials?* If any headspace is evident, comment in out-of-control	. // 🔪	N/A
Req By: PM C 6. Were samples rec proper containers requested?	eived in (Yes)	No*	section. 12. If sent, were matrix spike bottles returned?	Yes No⁴	
7. Were all sample c received intact?		No*	13. Was Project Manager notific of problems? (initials:)	(N/A)
Airbill Number(s): Cooler Number(s):		7839 <u> </u>	Shipped By:Shipping Charges:_		_
Cooler Weight(s):			Cooler Temp(s) (°C) CCKY (LIST THERMOMETER NUMBER)	: <u>3°</u>	-
Out of Control Eve	onts and Inspection	BOTTOM	:-HALFOFCOC WAS	41 /	£Δ./Λ
time semples(pH, Di H Other, note who i composited must be	() trol end/or questionable events issolved O ₂ , Rasidual CL) as our requested the aplitting or comp a done in the Volatile Lab. Doc	on Comment Sections of hold time, there outling of samples outling of samples outliness.	(Use BACK OF PSIFFOR ADDRESS.) Logged By: HE Liston Note Lis	ate: <u>15-DCC</u> artment will flag immedia is PSIF. samples requested to be in litting (compositing)	_() ite hold split or
nH results (STL-SO)	P 938, section 2.2.9).		k, and other requested samples are to be recorded volstile analysis, however, STL makes it policy to		

control (STL-SOP 938, section 2.2.12).



RECEIVED OHIO EPA

APR 2 2 2002

SOUTHWEST DISTRICT

CLOSURE REPORT

SPINNAKER FACILITY – WEST END TROY, OHIO

April 2002

PREPARED FOR:

KIMBERLY-CLARK CORPORATION ROSWELL, GEORGIA

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EXECUTIVE SUMMARY

Spinnaker Coating, Inc. manufactures pressure-, moisture- and heat-sensitive adhesive stock for labels, stamps and related items at two plants at separate sites in Troy, Ohio. Plant 1 is located at 518 East Water Street and is the subject of this report. The facility started operations in 1928 when Brown-Bridge Industries, Inc. began manufacturing adhesive products. Kimberly-Clark Corporation acquired Brown-Bridge Industries in 1971 and continued operation of the facility until 1994 when the property was sold to Spinnaker.

Environmental assessments were conducted as part of Kimberly-Clark's sale of the property to Spinnaker. Soil and groundwater impacted by fuel oil and volatile organic compound (VOC) (primarily toluene) releases were discovered in two small areas on the west side of the facility. Groundwater impacted by toluene releases was discovered in two small areas on the east side of the facility. In addition, VOCs were found to be migrating onto the Spinnaker property in shallow groundwater flow from an upgradient, off-site source or sources.

Remediation of the four impacted areas on the Spinnaker property began in April 1995 with the removal of impacted soil from the two areas on the west end of the facility and installation of groundwater remediation systems in all four areas. The Ohio Environmental Protection Agency (OEPA) was involved in the development of the clean-up plan, reviewed Kimberly-Clark's clean-up goals, and encouraged Kimberly-Clark to begin voluntary remediation in accordance with the plan. Groundwater clean-up goals were achieved on the east end of the facility by January 1998 and the remediation system was shut down with no further action required. Clean-up goals or background concentrations were achieved on the west end of the facility by December 2000. Concentrations of VOCs, primarily tetrachloroethene (PCE) but also lower concentrations of trichloroethene (TCE), cis-1,2-dichloroethene (cDCE), and 1,1,1-trichloroethane (1,1,1-TCA), continue to migrate onto the Spinnaker property from off site. TCE and vinyl chloride, both breakdown products of PCE, continue to be present in groundwater on the down-gradient boundary of the Spinnaker property in concentrations exceeding MCLs but consistent with levels caused by the off-site source(s) of contamination.

OEPA expressed concerns about the source of remaining concentrations of VOCs on the Spinnaker property, the migration and breakdown mechanisms of VOCs coming onto the Spinnaker property, and the risks that remaining groundwater VOC concentrations pose to human health and the environment, including the City of Troy east well field located across the Great Miami River from the Spinnaker property. Consequently, Kimberly-Clark continued to operate the groundwater remediation system throughout 2001 to the present while conducting additional assessment to address OEPA's concerns.

The results and conclusions of this supplemental assessment, combined with over eight years of site investigation, remediation and analytical history, are presented in this report. The conclusions are:

- 1. PCE continues to migrate onto the property from an off-site source or sources. The PCE is reductively dechlorinated to produce the daughter products TCE, cDCE, and vinyl chloride and is the source of remaining concentrations of these compounds in groundwater on the Spinnaker property.
- Regardless of the source, remaining groundwater VOC concentrations beneath the Spinnaker property do not pose any threat to public health or the environment either on or down gradient of the facility, including the City of Troy east well field. (Note that sources upgradient of the Spinnaker property and sources across the Great Miami River have not been evaluated and may pose a significant risk).
- 3. Remaining VOC concentrations in shallow groundwater beneath the Spinnaker property are not the responsibility of the present or any past property owner.
- 4. Multiple potential off-site sources of groundwater contamination exist upgradient of the Spinnaker property.
- Multiple potential sources of groundwater contamination exist upgradient of the City of Troy east well field, located on the opposite side of the Great Miami River from the Spinnaker property.
- 6. The groundwater remediation system on the Spinnaker property has served its purpose as designed to remediate source areas on the Spinnaker property, but is completely ineffective for containment or remediation of groundwater contamination originating from off-site sources.

On the basis of this information and these conclusions, Kimberly-Clark has the following recommendations:

- 1. Discontinue operation of the groundwater extraction and treatment system. Continued operation of this system serves no environmental purpose.
- 2. Abandon all site pumping and monitoring wells in accordance with applicable standards, or transfer ownership of the wells to the State for use in their continuing efforts in this area of Troy.
- 3. Public regulatory agencies should investigate off-site sources of VOCs in groundwater and their potential risk to the public and environment.

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LIST OF ACRONYMS

AES - Applied Engineering & Science, Inc.

bgs - below ground surface

BOD - biochemical oxygen demand

cDCE - cis-dichloroethene

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

cfm - cubic feet per minute

COC - compounds of concern

COD - chemical oxygen demand

CSM - conceptual site model

1,1-DCA - 1,1-dichloroethane

EEIB - Environmental Enterprises, Inc. boring

GZA - GZA Environmental, Inc.

in. w.c. - inches of water column

MCL - maximum contaminant level

NPDES - National Pollutant Discharge Elimination System

OEPA - Ohio Environmental Protection Agency

OEPA USTAL - OEPA Underground Storage Tank Action Level

ORP - oxidation-reduction potential

PAH - polycyclic aromatic hydrocarbon

PCE – tetrachloroethene (perchloroethene)

POTW - publicly owned treatment works

ppb - parts per billion

ppm - parts per million

PRP - potentially responsible party

PVP/VA - polyvinylpyrrolidone/vinyl acetate

PW - pumping well

RCRA - Resource Conservation and Recovery Act

RS - rotosonic

SPCC - Spill Prevention Control and Containment

LIST OF ACRONYMS (continued)

1,1,1-TCA - 1,1,1-trichloroethane

TCE - Trichloroethene

TDS - total dissolved solids

TSDF - Treatment Storage and Disposal Facility

TOC - total organic carbon

TSS - total suspended solids

USEPA - United States Environmental Protection Agency USEPA CAL - USEPA Corrective Action Level UST - underground storage tank

VOC - volatile organic compound

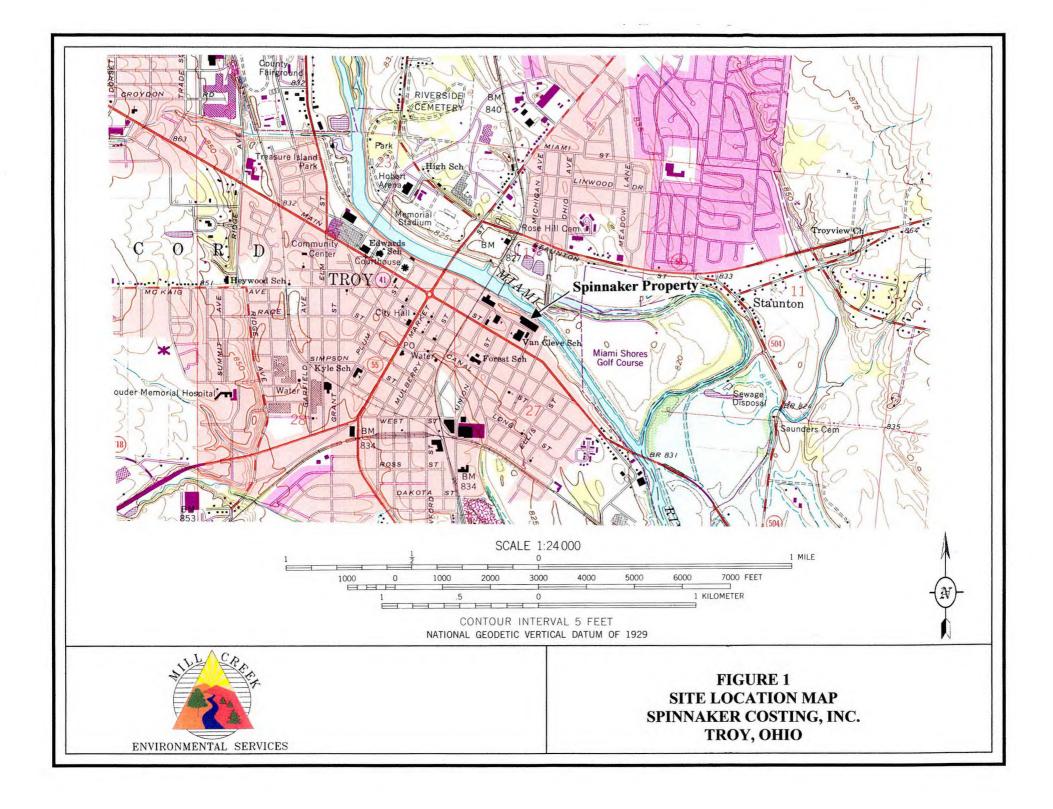
1.0 INTRODUCTION

Spinnaker Coating, Inc. manufactures pressure-, moisture- and heat-sensitive adhesive stock for labels, stamps and related items. The company operates two plants at separate sites in Troy, Ohio. Plant 1, henceforth referred to as the Spinnaker property, is located at 518 East Water Street and is the subject of this report.

The facility on the Spinnaker property started operations in 1928 when Brown-Bridge Industries, Inc. began manufacturing adhesive products. Since then, the plant has expanded to include five connected buildings on approximately 5 acres adjacent to the Great Miami River (Figure 1). Kimberly-Clark Corporation acquired Brown-Bridge Industries, Inc. in 1971 and continued operation of the facility until 1994 when the property was sold to Spinnaker Coating, Inc. Spinnaker has continued operation of the facility.

Environmental assessments were conducted as part of Kimberly-Clark's sale of the property. Soil and groundwater impacted by fuel oil and volatile organic compound (VOC) (primarily toluene) releases were discovered in two small areas on the west side of the facility. In addition, groundwater impacted by toluene releases was discovered in two small areas on the east side of the facility. The environmental assessment and subsequent investigations also clearly identified VOCs (including tetrachloroethene and trichloroethene) migrating onto the Spinnaker property from an unidentified upgradient source or sources.

The releases were reported to the Ohio Environmental Protection Agency (OEPA). After discussions between OEPA and Kimberly-Clark that included submittal of site analytical data, the proposed remedial approach and proposed clean-up goals, OEPA concurred that Kimberly-Clark should proceed with a voluntary remediation of the site.



Remediation of these areas began in April 1995 with the removal of impacted soil from the two areas on the west end of the facility and installation of groundwater remediation systems in all four areas (Applied Engineering & Science (AES), 1995). Groundwater clean-up goals were achieved on the east end of the facility by January 1998 and the remediation system was shut down with no further action required. As such, this report contains no further discussion of the east end of the property. Additional information regarding the remediation efforts conducted on the east end of the Spinnaker facility can be found in several reports (AES, 1993; AES, 1994; AES, 1995; AES 1998; McFadden, 2001).

Clean-up goals or background concentrations were achieved on the west end of the facility by December 2000. Although VOCs were still detected in the groundwater, the results of six years of sampling confirmed that the remaining levels were the result of migration of PCE onto the property and its subsequent breakdown through natural processes. These results were submitted to the OEPA in a closure report early in 2001 (McFadden, 2001) and the west end groundwater remediation system was turned off. OEPA objected to the termination of treatment citing a potential risk to one of the City of Troy's well fields.

The City of Troy obtains its drinking water from two well fields identified as the west well field and the cast well field. The west well field is located approximately one mile northwest of the Spinnaker property on the opposite side of the Great Miami River. The east well field is located on the opposite site of the Great Miami River and approximately 1,200 feet downstream from the Spinnaker property. This well field includes five production wells installed parallel to the northeast side of the Great Miami River. Several other wells in this well field have been pumped in the past but are now abandoned or are not currently used.

Trichloroethene (TCE) has been detected in groundwater produced from the west well field at concentrations exceeding the Maximum Contaminant Level (MCL) of 5 μ g/L established for drinking water by the United States Environmental Protection Agency (USEPA). Cis-1,2-dichloroethene (cDCE) has been sporadically detected at concentrations less than 1 μ g/L in water samples collected from one of the wells in the east well field. Although the detected concentrations were well below the 70- μ g/L MCL, OEPA has spent considerable resources evaluating whether the Spinnaker property could be a source of the cDCE; however, only a minimal effort has been made to investigate other potential and more likely sources on the other side of the river.

Data collected from groundwater samples collected on the west end of the main building on the Spinnaker property have shown low µg/L detections of chlorinated solvents including TCE, cDCE and vinyl chloride. Based on this data, OEPA raised questions about the impact that migration of these contaminants from the Spinnaker property might have on the City of Troy's east well field and other off site receptors. Pending an investigation to locate the source of the contamination and determine the potential impact of contamination leaving the property, OEPA ordered Kimberly-Clark to restart the west end groundwater remediation system (and that Order has been appealed). The system was restarted in April 2001 and operation continues to this date.

During the additional year that the groundwater remediation system has continued to operate, significant data have been collected which directly address OEPA's questions/concerns regarding contaminants detected at the Spinnaker property. The data clearly demonstrate that tetrachloroethene (PCE) continues to migrate onto the property at relatively high concentrations from an off-site source, and that the PCE is reductively dechlorinated to produce the daughter products TCE, cDCE, and vinyl chloride. This report provides an updated analysis of the west end of the Spinnaker site with respect to these issues and provides the basis for closure of this site.

The following sections of the report summarize the available data which confirm that:

- The VOC's detected at the west end of the Spinnaker property result from the migration of PCE onto the property from an unidentified upgradient source or sources and the subsequent breakdown of PCE through natural processes.
- Conditions at the Spinnaker site support the breakdown of PCE to TCE, cDCE and vinyl chloride.
- Using even the most conservative groundwater modeling assumptions, the concentrations of VOC's at the Spinnaker site do not present a risk to the Troy well field.
- Soil and groundwater conditions at and down gradient of the Spinnaker site do
 not present a risk to human health or the environment (note that sources and
 areas upgradient of, and across the river from, the Spinnaker property have not
 been evaluated and may pose such a risk).

Kimberly-Clark is not responsible for contamination migrating onto the Spinnaker property. Site conditions do not pose a risk to the well field or any other potential receptor. Moreover the existing groundwater treatment system cannot effectively treat the plume resulting from the migration of PCE onto the property. Accordingly, the operation of the groundwater system should be terminated and OEPA should recognize that Kimberly-Clark has completed the remediation of the Spinnaker facility.

2.0 SITE BACKGROUND

2.1 Facility Description and Operational History

The manufacturing facility on the Spinnaker property has been manufacturing pressure, moisture- and heat-sensitive adhesive stock for labels, stamps and related items under several site owners since 1928. Solvents have been, and continue to be, used in the manufacturing process; however, the types of materials used and their storage, handling and disposal procedures have changed over the years. The following sections provide a summary of these changes.

2.1.1 Past Practices

Until 1995 when new storage facilities were built, Spinnaker had three 10,000-gallon, one 30,000-gallon, and one 300-gallon bulk aboveground storage tanks in use for hazardous and non-hazardous materials. The 10,000-gallon and 30,000-gallon tanks were used to store toluene, methanol and fuel oil. The 300-gallon tank was used to store gasoline. In addition, three underground tanks were used at the facility to store gasoline, fuel oil and toluene. Both the aboveground and underground tanks have been removed from service with proper closure. Except for the 300-gallon tank, the aboveground tanks were emptied and cleaned prior to disposal in 1995. The underground tanks were removed from service in 1988. Two of the tanks, the gasoline and toluene tank, were removed and disposed of properly. The fuel oil tank, which is located under the manufacturing building, was closed in place and filled with concrete slurry. All associated pipelines were cleaned, disassembled and disposed of properly.

Hazardous materials received in drums were stored on a concrete pad that was located west of the manufacturing building. The concrete pad had a sump at the entrance to capture spilled material.

The vast majority of the hazardous materials were used in the coating process. Toluene and methanol were stored in the three 10,000- gallon bulk tanks and used in the Dry Gum process on Coater #5. Isopropanol was received in drums and used on Coaters #5 and #2. Ammonia was received in the 5-gallon carboys and was mainly used on Coaters #1, #4, & #5. 1,1,1-Trichloroethane (TCA) was received in drums and was used to clean machinery and was used to test check the quality of product runs on the various coaters.

From 1981 to 1995 (approximate time frame), all hazardous materials were properly disposed of through a licensed hazardous waste disposal company. Materials were shipped to a treatment, storage, and disposal facility (TSDF) in 55-gallon drums and occasionally in bulk tankers. The drums were accumulated on a concrete pad that had secondary containment outside of the manufacturing building. The facility had a written Resource and Conservation Act (RCRA) Contingency/Spill Prevention Control and Containment (SPCC) plan. The plan addressed emergencies involving hazardous materials. Prior to 1981, materials were accumulated and disposed of in accordance with the regulations of the day.

2.1.2 Current Practices

Spinnaker Coating, Inc. currently uses three 10,000-gallon and one 300-gallon bulk tanks for hazardous materials storage. These tanks are located on the east side of the facility. The 10,000-gallon tanks were installed in 1995 and the material in these tanks is contained within a tertiary containment system. The primary tank is contained inside a metal secondary containment box that is placed within a concrete tank farm dike. All the piping that serves this tank system is of double-wall construction. Both the tank system and the piping system employ a leak detection system to alert personnel of any problems. The 300-gallon tank was modified with secondary containment in 1995 and contains gasoline.

Hazardous materials received in drums are stored at two locations prior to use within the plant. The first location is a drum storage building specifically built to store hazardous materials. The building includes a secondary containment system to prevent any spillage from getting into the environment. The second location includes a series of secondary containment structures, which consist of metal containment boxes with a grate on top. The drums are placed on the grate and if a drum leaks, the hazardous material is contained within the metal box. The bulk of the hazardous materials are stored in these specialized facilities and only the amount of chemical required for a specific process is taken into the manufacturing building.

The Spinnaker facility receives small amounts of hazardous materials in containers that hold less than 55 gallons. Many of these are laboratory reagents in less than gallon size containers. The main raw material is an ammonia hydroxide solution that is received in 5-gallon carboy containers. These materials are stored inside the manufacturing building.

The vast majority of the chemicals received at the Spinnaker facility continue to be used in the coating process. Toluene and methanol are stored in the three 10,000-gallon bulk tanks and used in the Dry Gum process on Coater #5. Isopropanol is received in drums and used on Coaters #2 and #5. Polyvinylpyrrolidone/vinyl acetate (PVP/VA) is used on Coater #2. Ammonia is received in 5-gallon carboys and mainly used on Coaters #1, #2, & #5. Mineral spirits is received in drums and used for machine cleaning. 1,1,1-TCA received in drums is used to test check the quality of product runs on the various coaters.

All hazardous materials are properly disposed of through a licensed hazardous waste disposal company. Materials are shipped to the TSDF in 55-gallon drums. The drums are accumulated in the drum storage building outside of the manufacturing building. This building is covered and has its own secondary containment system. The facility has a written RCRA Contingency/SPCC plan. The plan addresses emergencies involving hazardous materials.

2.2 Site Hydrogeology

Numerous reports have been completed that provide information on the hydrogeology of the Spinnaker property and surrounding area of Troy. Schmidt (1984) and Spahr (1995) investigated the hydrogeology and groundwater pollution potential of Miami County, respectively. Panterra (1994) completed wellhead protection investigations for the City of Troy. Their work included evaluation of available hydrogeologic information, modeling of the aquifer, and an inventory of potential sources of contamination in the area of the two Troy well fields. EarthTech, under contract to OEPA, investigated several sites where known or suspected releases of contaminants to groundwater occurred in the area of the two Troy well fields (EarthTech, 1997).

Reports specific to the Spinnaker site include the initial site investigation reports, which first reported the impacted soil and groundwater and defineated the on-site contamination (AES, 1993; AES, 1994). As part of these site assessments, eleven monitoring wells were installed (three were later abandoned), 53 soil borings completed, 56 groundwater and 60 soil samples were collected and analyzed.

AES prepared a report in November 1995 that details the soil remediation on the property and the implementation of the groundwater remediation program to address the contaminant plumes discussed above. Soil sampling conducted for the soil remediation included 40 samples screened by field methods (head space and bioassay tests) and 168 samples submitted for laboratory analyses. These initial remediation activities also included the installation of nine additional site monitoring wells and four pumping wells. Site monitoring wells have been sampled on a quarterly basis since 1995 (background wells were sampled annually from 1997 through 2001). These sampling events have included the collection and analysis of approximately 470 groundwater samples. In addition, 158 water samples have been collected and analyzed from the groundwater treatment system.

OFPA-and its contractors completed investigations on the Spinnaker property and east Troy well field (Earth Tech, 1997, OEPA, 2000; IT Corporation, 2001). The 1997 Earth Tech investigation included sampling in several areas of Troy. Eleven groundwater samples were collected from eight locations on properties adjacent to Spinnaker (PCE, TCE and cDCE were detected in groundwater samples collected on Hobart Cabinet property). The 2000 investigation (OEPA, 2000 and IT Corporation, 2001) included the installation of five borings and two additional monitoring wells (RS04 and RS06) on the Spinnaker property and the collection and analysis of 40 groundwater samples. An aquifer pump test was also conducted.

In total, from the initial site investigation in 1993 until the present, 22 monitoring wells (19 that still exist) and four pumping wells have been installed on the Spinnaker property along with 66 soil borings. Over 260 soil and 750 water samples have been collected and analyzed. The Spinnaker property is 4.4 acres in size, mostly under roof.

In November 1997, OEPA submitted a list of questions to Kimberly-Clark regarding the site and the remediation activities and results. Kimberly-Clark prepared and submitted a response to the questions in March 1998 (AES, 1998). A report describing the completion of the remedial activities was submitted to OEPA in February 2001 (McFadden, 2001).

2.2.1 Geologic Setting

Unconsolidated glacial deposits overlying Paleozoic bedrock characterize the geology of the Troy area. The glacial deposits vary from clay- to gravel-sized material and typically range in thickness from 20 to 40 feet. In areas where erosional features (valleys) were developed on the older bedrock surface, the overlying glacial deposits are thicker. Most of the City of Troy, including the east well field, is underlain by these buried bedrock valleys where glacial deposits range up to 200 feet thick. Bedrock valleys acted as

drainage-basins during glacial periods and subsequently filled with permeable sand and gravel deposits that formed productive aquifers.

The glacial deposits in the Troy area are divided into an upper and a lower aquifer, which are separated by a lower-permeability confining unit. The upper aquifer is typically 10 to 40 feet thick and was the unit impacted by releases at the Spinnaker facility. The lower aquifer is thicker than the upper aquifer and consists of buried bedrock valley sand and gravel deposits. The City of Troy's drinking water wells and Spinnaker's production wells are screened in this formation. The confining unit varies considerably in depth and thickness, but in the area of the east Troy well field is typically found at depths between 70 and 100 feet below ground surface (bgs) and ranges in thickness from 5 to 25 feet.

The Spinnaker property is underlain by generally clayey deposits and fill to depths of approximately 10 feet. The water table is encountered at depths between 10 and 12 feet in the upper aquifer, which consists of coarse sand with varying amounts of silt and fine sand. Clay was encountered in several test borings and monitoring wells at depths of approximately 28-30 feet (AES, 1993; AES 1994; AES, 1998). Two of OEPA's test borings did not encounter clay; however, these borings terminated at 50 feet (OEPA, 2000; IT Corporation, 2001).

Potentiometric maps of the upper aquifer underlying the Spinnaker property have been prepared for every complete water-level data set from August 1995 to the present and are included in Appendix B. The average groundwater gradient based on water table measurements in the upper aquifer has ranged from 0.0028 to 0.006, with the direction showing some variation from northeast to east. These results are consistent with other hydrogeological references for the Troy area (Panterra 1994 and Schmidt 1984). As would be expected, influences of the stage of the Great Miami River can be seen on some of these maps as localized reversals of gradient along the down gradient side of the Spinnaker Property. However, in all cases groundwater flow is from Water Street toward the Great Miami River across the Spinnaker property. There are no data refuting this

finding. An average potentiometric map, prepared using data from 1995 through 2002, illustrates the predominant flow direction across the Spinnaker Property (Figure 2).

2.2.2 Aquifer Testing

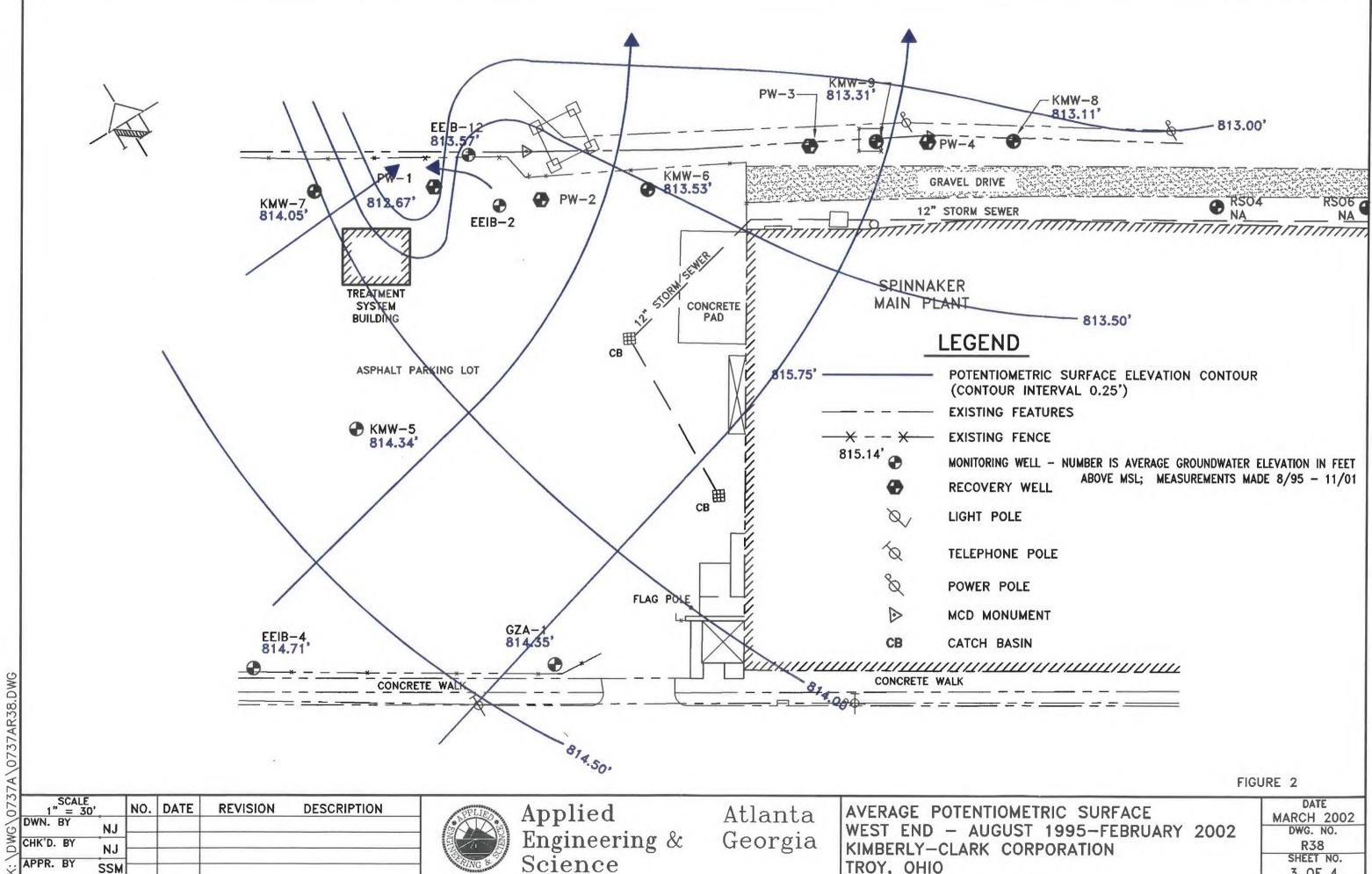
Several aquifer tests have been conducted on the Spinnaker property and at the Troy well fields to evaluate the hydraulic properties of the upper and lower aquifers and the intervening confining unit. The more pertinent results are summarized below.

2.2.2.1 City of Troy Aquifer Test Results

Aquifer testing of the lower aquifer was conducted by contractors for the City of Troy as part of the City's water source development and wellhead protection program and a detailed report was published (Panterra, 1994). The hydraulic conductivity of the lower aquifer in the area of Troy's east well field ranged from 75.7 ft/d to 144 ft/d. This equates to transmissivity values ranging from approximately 9,800 ft²/d to 18,700 ft²/d. The storage coefficient was reported in the range of 10⁻⁴ to 10⁻⁵, characteristic of confined conditions. The confining layer between the upper and lower aquifer was characterized with a hydraulic conductivity between 0.0003 ft/d and 0.22 ft/d.

2.2.2.2 AES Aquifer Test Results

AES conducted a pump test on the upper aquifer on the Spinnaker Property as part of the site remediation activities and published a detailed report describing the test and results in 1995 (AES, 1995). Data from this test were used to evaluate the hydraulic properties of the shallow aquifer and calculate the capture zone of the groundwater treatment system. The hydraulic conductivity ranged from 125 ft/d to 200 ft/d equating to transmissivity values ranging between 2,160 ft²/d and 4,100 ft²/d. The storage coefficient ranged from 0.013 to 0.033, characteristic of unconfined conditions.



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2.2.2.3 OEPA Aquifer Test Results

OEPA conducted an aquifer test in the area of the Spinnaker facility in November-December 2000 (IT Corporation, 2001). Production wells in the City of Troy's east well field were utilized as pumping wells while water levels were monitored in observation wells on both the northeast (Troy's east well field) and southwest (Spinnaker property) sides of the Great Miami river. Water levels in three shallow piezometers in the bed of the river between the well field and the Spinnaker property were also monitored. During the test, Spinnaker Coating, Inc.'s two deep production wells and Kimberly-Clark's four shallow remediation wells continued normal operation. These wells are on the same side of the Spinnaker property and in close proximity to the observation wells used for the test. Operation of production and extraction wells on the Spinnaker property has been shown to impact the water levels in the observation wells (i.e. the monitoring wells) on the Spinnaker property. Therefore, it would prove very difficult to extrapolate out the contributions to water level changes caused by pumping the wells in the east well field and the wells operating on the property. Although performed over one year ago, no analysis of the data from the aquifer test has been provided by OEPA.

2.3 Baseline Contamination

Site investigations completed in 1993 and 1994 as part of the sale of the property delineated the extent of impacted soil and groundwater at the site (AES, 1993; AES, 1994). Fuel oil constituents and volatile organic compounds (VOCs), including PCE, 1,1,1-TCA, and their respective daughter products TCE, cDCE, vinyl chloride, and 1,1-dichloriethane (1,1-DCA) and chloroethane, respectively, were detected in site soil and groundwater. PCE and 1,1,1-TCA were also detected in groundwater samples collected from monitoring wells located immediately adjacent to the property line on the upgradient side of the Spinnaker property, indicated that these compounds were migrating onto the property from an off-site source or sources.

The site investigations focused on known areas of environmental concern including hazardous and nonhazardous materials storage and handling locations. These areas included:

- The Bulk Storage Area located in the west parking lot, this area contained aboveground tanks for the storage of fuel oil, virgin and reclaimed toluene and methanol.
- The Hazardous Waste Storage Area located next to the Bulk Storage area, this area was used for temporary storage of drums of spent solvents and other hazardous materials until they were removed from the property.
- A 400-gallon Underground Storage Tank (UST) Historically used to store gasoline and located on the east side of the Bulk Storage area. The tank was removed in 1988.
- The Nonhazardous Waste Storage Area located adjacent to the west end of the Brown-Bridge Building in the west parking lot, used for storage of empty drums and drums of nonhazardous adhesive materials.

Results of these investigations indicated two areas on the west end of the Spinnaker property where releases had impacted soil and groundwater quality:

- In and down gradient of the Bulk Storage area, soil and groundwater were impacted by releases of fuel oil and toluene.
- In and down gradient of the Nonhazardous Waste Storage area, soil and groundwater were impacted by a release of VOCs.

Results of these investigations are summarized in Figure 3, which shows VOC concentrations in soil and groundwater prior to remediation on the west end of the Spinnaker facility. Toluene and polycyclic aromatic hydrocarbon (PAH) concentrations in and down gradient of Bulk storage area indicate that a release occurred from these tanks. Chlorinated VOCs were detected in soil and groundwater in and down gradient of the Nonhazardous Waste Storage. Detailed results of the investigations can be found in AES, 1993 and AES, 1994.

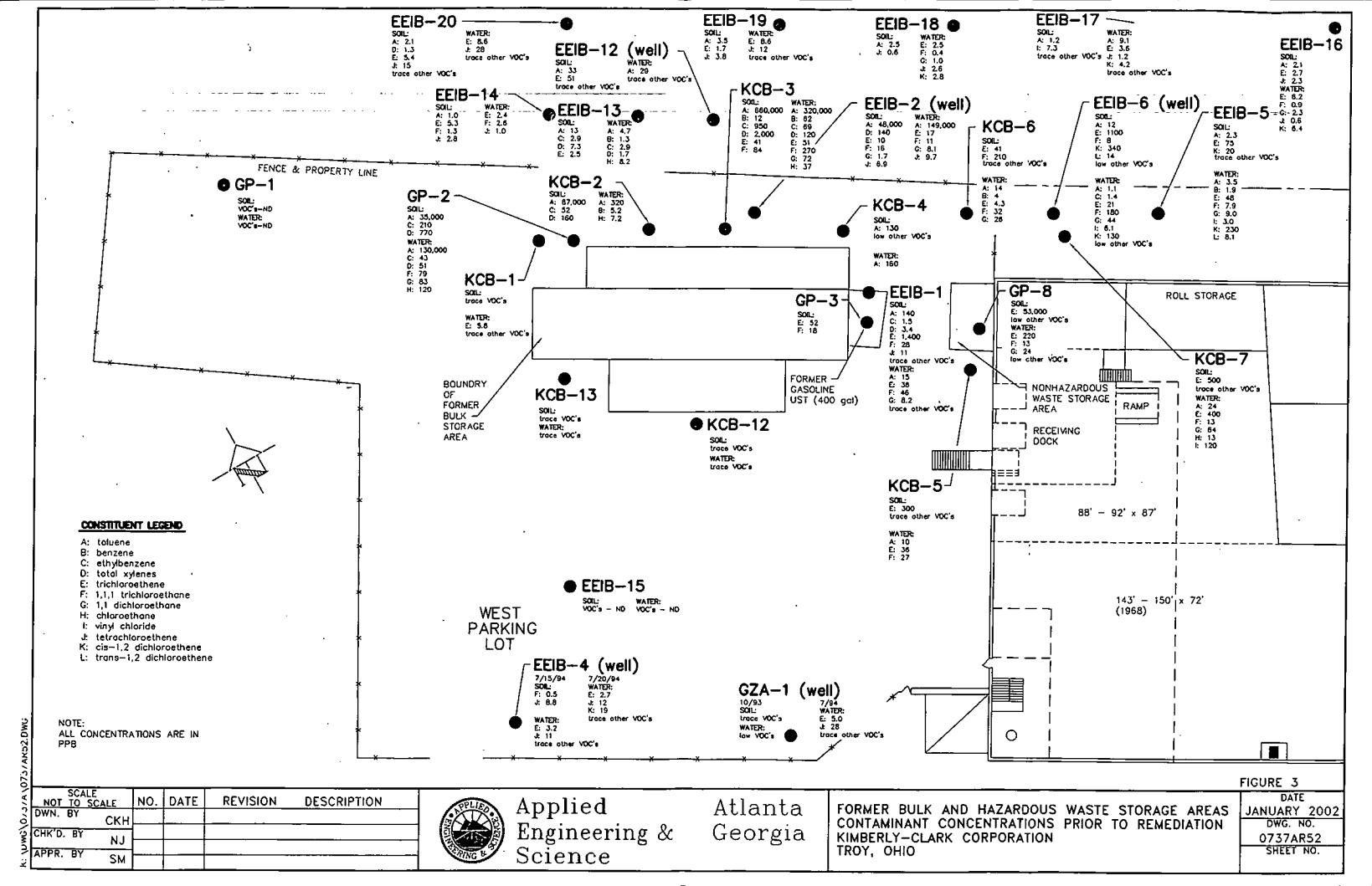
OEPA was notified of the findings from these investigations. After a series of correspondence and meetings, OEPA concurred that Kimberly-Clark should proceed with voluntary remediation of the site.

2.4 History of Site Remediation Activities

Soil and groundwater remediation activities began in April 1995 (AES, 1995). Tanks in the Bulk Storage area were removed and a new bulk storage facility was designed and constructed on the east side of the Spinnaker Property. Impacted soil in the Bulk Storage and Nonhazardous Waste Storage areas was excavated and removed for off-site disposal and the excavation was filled with clean fill. A groundwater remediation system was installed to address two separate groundwater contaminant plumes on the west side of the facility. The system was installed in the summer of 1995 and began operation in August 1995.

2.4.1 Source Area Excavations

Soil remediation activities in the source areas at both the Bulk Storage and Nonhazardous Waste Storage areas began on April 17, 1995. The goal of the excavation was to effectively remove the source of any contaminants and then to treat the remaining isolated areas of groundwater contamination. Prior to excavation of any impacted soil, the concrete pads and containment structures were removed. Approximately 130 cubic



yards of concrete were removed from the Bulk Storage area and adjacent drum storage pad. An additional 20 cubic yards of concrete were removed from the Nonhazardous Waste Storage area.

Impacted soil was removed from two separate but closely spaced excavations. In the Bulk Storage and adjacent operational areas, the excavation measured approximately 120 feet by 35 feet and extended to the water table at a depth of 13 feet bgs. A total of 715 cubic yards of soil were removed for off-site disposal in 64 roll-off containers (note: the volume of soil removed is less than the volume of the excavation because some clean material was returned to the excavation based on field screening and laboratory analyses, and the fuel oil tank was in a below-ground-level concrete containment structure). Evidence was found that releases occurred in the vicinity of the fuel oil and recycled toluene tanks.

The excavation in the Nonhazardous Waste Storage area was L-shaped. One leg of this excavation extended approximately 80 feet along the north side of the facility building with a width of approximately 30 feet. The other leg ran along the west side of the main facility building and measured 40 feet by 25 feet. The entire excavation extended to the water table at a depth of approximately 13 feet bgs. A total of 810 cubic yards of soil were removed from the Nonhazardous Waste Storage area and transported for off-site disposal in 66 roll-off containers. No field evidence of a contaminant release to soil was noted during this excavation and no source was identified.

A total of 130 containers of material excavated from both areas were transported to Republic Environmental Services in Dayton, Ohio for testing, treatment if necessary, and disposal. Soil in fourteen of the containers was tested and disposed of in a nonhazardous waste landfill. Soil in three of the remaining 116 containers was treated prior to disposal (two containers for toluene and one for TCE), and then disposed of in a hazardous waste landfill along with the soil from the remaining 113 containers.

During excavation, samples or the removed soil and soil samples collected from the walls and floors of the excavations were screened in the field using headspace and bioassay analyses. Samples also were submitted for laboratory analyses. The data from this suite of analyses were used to guide the excavations and confirm that established soil clean-up goals were met. A summary of the results of the soil removal effort compared with established clean-up goals is presented in **Table 1**. Details of the soil remediation activities, including results of all field screening and laboratory analyses, can be found in the Site Remediation Report (AES, 1995).

Table 1. Summary Comparison to Clean-up Goals
West End Soil Remediation

Constituent	Soil Clean-Up Goal (mg/kg)	Maximum Concentration After Excavation (mg/kg)
Toluene	4.0	0.43
Benzene	0.006	Nondetect
Ethylbenzene	6.0	Nondetect
Xylenes	28.0	0.28
TCE	60.0	18.0
Vinyl Chloride	Background	Nondetect
PCE	10.0	0.79
cDCE	7,000	0.006
Trans-1,2-dichloroethene	7,000	Nondetect

2.4.2 Groundwater Treatment

2.4.2.1 Remedial System Design

A pump-and-treat system was designed and installed to address the groundwater contamination on the west side of the Spinnaker property. The original design of the treatment system includes four extraction wells (PW-1, PW-2, PW-3, and PW-4), an oil/water separator tank, an air-stripping reactor, and a network of monitoring wells.

Since operation began, use of one of the original extraction wells (PW-1) was discontinued and one alternative well (EEIB-2) was brought online.

Extraction Wells - Three extraction wells, PW-1, PW-2 and EEIB-2, are located down gradient of the former Bulk Storage area. These wells are all screened across the water table with screened sections extending from a depth of 9.5 feet bgs to total depth of 24.5 feet bgs. The primary constituents targeted for remediation in this area were fuel oil constituents and toluene, both of which were known to be present in the upper part of the aquifer only. Two extraction wells, PW-3 and PW-4, were installed down gradient of the Nonhazardous Waste Storage area to capture any contaminant from that area. These wells are screened from approximately 15 feet into the shallow aquifer to a depth of 30 feet bgs. Testing has shown that the VOCs in this area do not extend below that depth. Well installation details and construction diagrams can be found in the Site Remediation Report (AES, 1995).

An aquifer test was completed in August 1995 to obtain the data necessary to calculate the hydraulic properties of the upper aquifer (see Section 2.2.2). These properties were then used to evaluate the capture zone of the extraction wells, optimal pumping rates, and other factors related to operation of the groundwater pump-and-treat system. The width of the combined-well capture zone was sufficient to contain and remove the two plumes delineated on the west end of the Spinnaker property. The remediation system was not designed to capture or treat the previously identified off-site source or sources of contamination.

<u>Treatment and Discharge</u> – Piping from the wells to the treatment building was buried at least three bgs deep to prevent freezing. All underground water piping is double-walled so that the carrier pipe has secondary containment to prevent loss of contaminated water in the event of a leak. All piping slopes so that the secondary containment pipes would drain back to the wells.

Extracted groundwater is pumped to a heated building for treatment and discharge. The building is 20 feet deep by 24 feet long; 12 feet, 6 inches high at the eaves; and 15 feet

high at the peak. The concrete floor of the building has a 6-inch high curb that provides a containment capacity of approximately 1,900 gallons. Groundwater entering the building from the four wells is metered separately prior to being directed to a 2,100-gallon oil/water separator tank. After leaving the oil/water separator, water flows to an air stripper unit. The air stripper reactor consists of a tank designed to hold 160 gallons of water, and a blower designed to provide air at 600 cubic feet per minute (cfm) at a static pressure of 26 inches of water column (in. w.c.). Water is discharged after treatment in the air stripper through a discharge pipe constructed with secondary containment to contain leaks. In the event of a leak, water would flow back into the treatment building where it is contained. Initially, water was discharged to the City of Troy's publicly owned treatment works (POTW); however, this was later changed and treated water is discharged under permit to the Great Miami River (Section 2.4.2.2).

Automatic safety devices include alarm switches that shut down the pumping wells and treatment system in the event of abnormal operation of system components. These situations include low air pressure in the air stripper, water in the building containment, high water level in the separator tank, air-stripper tank or discharge sump, or backup in the discharge line.

2.4.2.2 System Operation

The groundwater remediation system began continuous operation in August 1995 immediately after construction and testing. Initially, water was pumped from the four extraction wells, PW-1 through PW-4, and treated in the separator tank and air stripper reactor prior to discharge to the City of Troy's sanitary sewer. Exhaust air from the air stripper reactor was treated to remove VOCs by passing it through canisters of activated carbon. The treated vapor was discharged to the atmosphere.

Several operational changes have been made since system start-up in August 1995. Sampling conducted on the exhaust from the air-stripping reactor during the first four months of operation indicated that activated carbon canisters were not required to meet air permit limitations. The canisters were removed in December 1995.

The width of the plumes decreased rapidly as remediation progressed. In September 1996, the extraction well located farthest west (PW-1) was no longer needed and was replaced by an alternate extraction well (EEIB-2) that was located closer to the center of the contaminant plume. Minimal amounts of fuel oil were recovered in the early months of system operation and it became apparent that most of the fuel oil was removed during excavation of the impacted soil. Therefore, the separator tank was taken off line in June 1997. Groundwater pumped from the extraction wells now goes directly to the air stripper for treatment. Treated water was originally discharged to the sanitary sewer located on the property and that feeds to the City of Troy's POTW. Because of significant reductions in concentrations in the influent, in 1997 Kimberly-Clark applied for and received a National Pollutant Discharge Elimination System (NPDES) permit from OEPA to discharge the treated groundwater directly to the Great Miami River.

The system has operated continuously in this manner since August 1995, with only minor interruptions for cleaning, maintenance and repair of the equipment. A local contractor conducts routine inspections and meter readings.

2.4.2.3 System Performance

Groundwater monitoring has been conducted quarterly since the start-up of the remediation system. Groundwater clean-up goals were established for the site prior to the start of remediation (AES, 1995, Table 4). From 1995 through 2000, down gradient wells (KMW-6, KMW-7, KMW-8, KMW-9, PW-1, PW-2, PW-3, PW-4, EEIB-2 and EEIB-12) were sampled on a quarterly basis while the background monitoring wells (KMW-5, EEIB-4 and GZA-1) were sampled annually. Monitoring was increased in 2001 to include all wells on the west end of the Spinnaker facility on a quarterly basis. This includes two additional wells (RS04 and RS06) that were installed by OEPA in

2000. In addition, the groundwater treatment system influent and effluent were sampled, at a minimum, on a quarterly basis until the system discharge was redirected from the City of Troy's POTW to the Great Miami River. The effluent is now sampled monthly and the influent quarterly as required by the NPDES permit. No VOCs have been detected in the treatment system effluent in the past three years. No VOCs have been detected in the treatment system influent in concentrations exceeding either groundwater clean-up goals (MCLs) or NPDES permit limits in over two years (in fact, most sampling events during this time period have yielded results below laboratory detection limits).

Groundwater VOC analytical results are summarized in Table 1 in Appendix A. Graphs showing concentrations of contaminants of concern (COC) over time are included Figure 4. The data show a steady decline in toluene concentrations until the clean-up goal was achieved at the end of 1999. Toluene has not been detected in any of the west end wells since March 2000. The analytical results for the chlorinated compounds illustrate a different trend. After an initial drop in concentrations following removal of impacted soil in 1995, concentrations have been reduced only slightly on the down gradient side of the property that is targeted by the continued remediation efforts. While concentrations of the COCs associated with remediated source areas on the Spinnaker property are below the MCL clean-up goals, TCE and vinyl chloride have both exceeded their respective goals in individual samples. PCE and 1,1,1-TCA have continued to migrate onto the Spinnaker Property from off-site sources, as shown by the detection of elevated concentrations in groundwater samples collected from wells KMW-7, EEIB-4 and GZA-1.

The numerous site investigations and remediation efforts conducted over a period of more than eight years by several different parties has developed an extensive database of groundwater contaminant data. A review of the data shows that the concentrations vary spatially as a function of sampling location, natural variations in groundwater chemistry, seasonal water table fluctuations, removal of contaminants by the remediation system, and the flux of contaminants onto the Spinnaker Property.